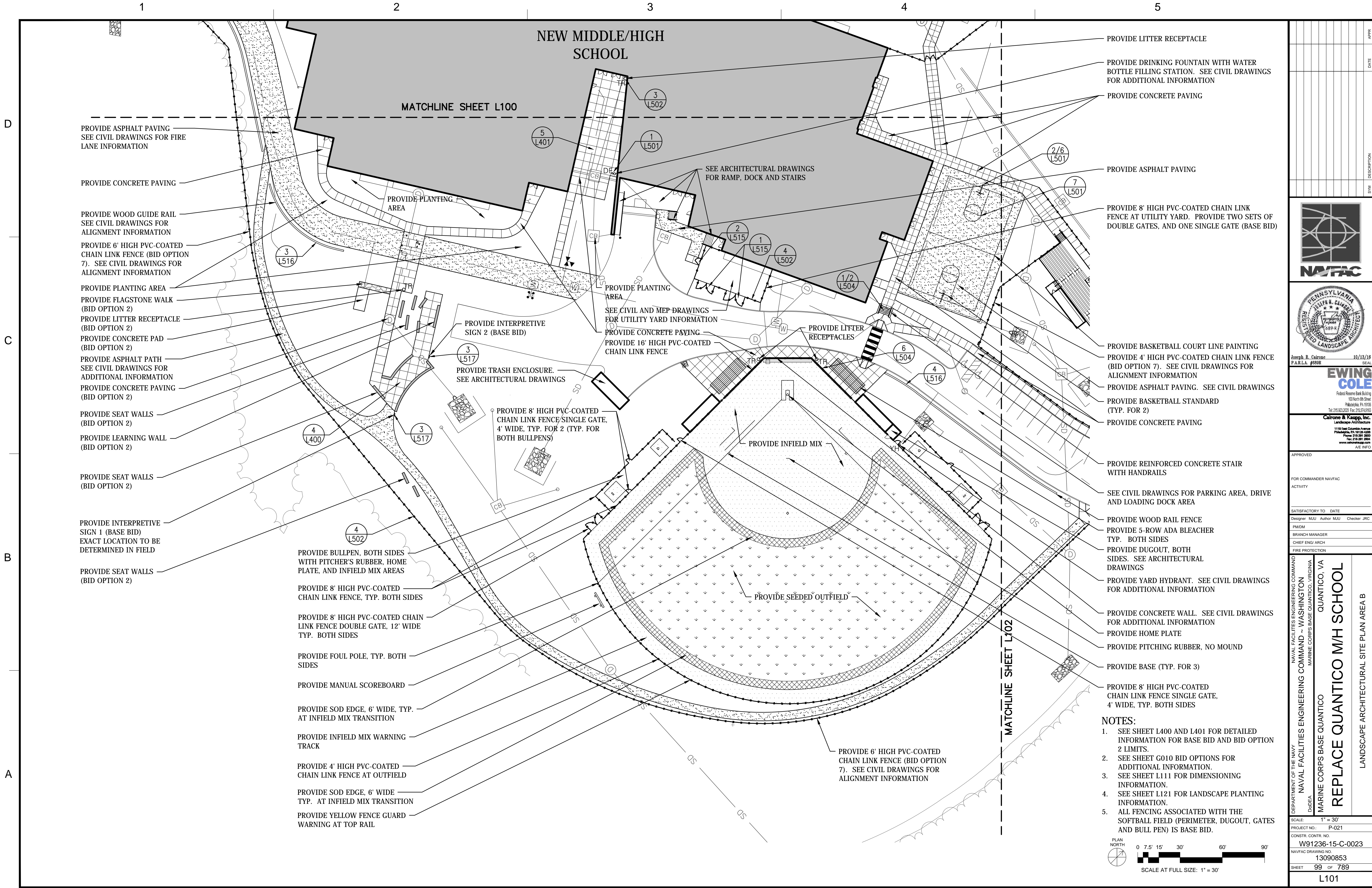


- NOTES:
1. SEE SHEETS L400 AND L401 FOR DETAILED INFORMATION FOR BASE BID AND BID OPTION 2 LIMITS.
 2. SEE SHEET G010 BID OPTIONS FOR ADDITIONAL INFORMATION
 3. SEE SHEET L110 FOR DIMENSIONING INFORMATION.
 4. SEE SHEET L120 FOR LANDSCAPE PLANTING INFORMATION.

APPROVED	
FOR COMMANDER NAVFAC ACTIVITY	
SATISFACTORY TO DATE	
Designer MJJ	Author MJJ
Checker JRC	
PM/DM	
BRANCH MANAGER	
CHIEF ENG/ ARCH	
FIRE PROTECTION	
NAVAL FACILITIES ENGINEERING COMMAND	
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON	
MARINE CORPS BASE QUANTICO, VIRGINIA	
QUANTICO, VA	
REPLACE QUANTICO M/H SCHOOL	
LANDSCAPE ARCHITECTURAL SITE PLAN AREA A	
DEPARTMENT OF THE NAVY	
NAVFAC DRAWING NO.	
13090852	
SHEET 98 OF 789	
L100	
SCALE: 1" = 30'	
PROJECT NO.: P-021	
CONSTR. CONTR. NO.	
W91236-15-C-0023	
NAVFAC DRAWING NO.	
13090852	
SHEET 98 OF 789	
L100	
RTA SUBMISSION - 10/13/2016	



- NOTES:**
- SEE SHEET L400 AND L401 FOR DETAILED INFORMATION FOR BASE BID AND BID OPTION 2 LIMITS.
 - SEE SHEET G010 BID OPTIONS FOR ADDITIONAL INFORMATION.
 - SEE SHEET L111 FOR DIMENSIONING INFORMATION.
 - SEE SHEET L121 FOR LANDSCAPE PLANTING INFORMATION.
 - ALL FENCING ASSOCIATED WITH THE SOFTBALL FIELD (PERIMETER, DUGOUT, GATES AND BULL PEN) IS BASE BID.



APPROVED		DATE	10/13/16
FOR COMMANDER NAVFAC		ACTIVITY	
SATISFACTORY TO		DATE	
Designer: MJJ	Author: MJJ	Checker: JRC	
PROJECT NO.: P-021			
CONSTR. CONTR. NO.: W91236-15-C-0023			
NAVFAC DRAWING NO.: 13090853			
SHEET 99 OF 789			
L101			

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
DDEA
MARINE CORPS BASE QUANTICO
QUANTICO, VA

REPLACE QUANTICO M/H SCHOOL

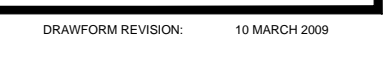
LANDSCAPE ARCHITECTURAL SITE PLAN AREA B

PAID
Joseph R. Calzone
P.A.L.A. #6898

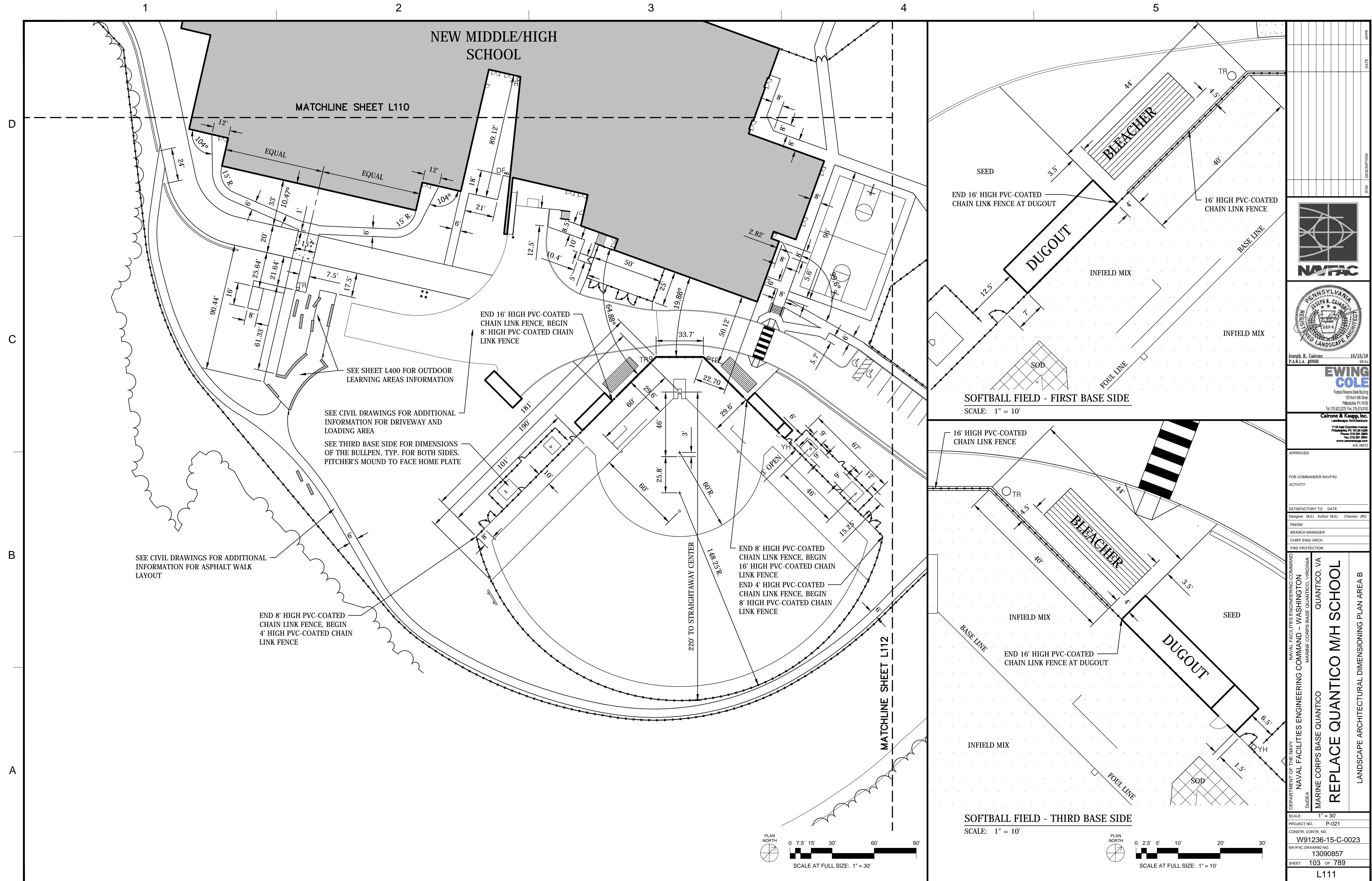
10/13/16
SEAL

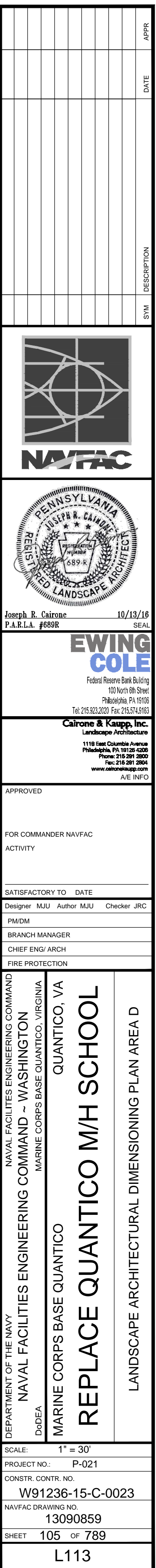
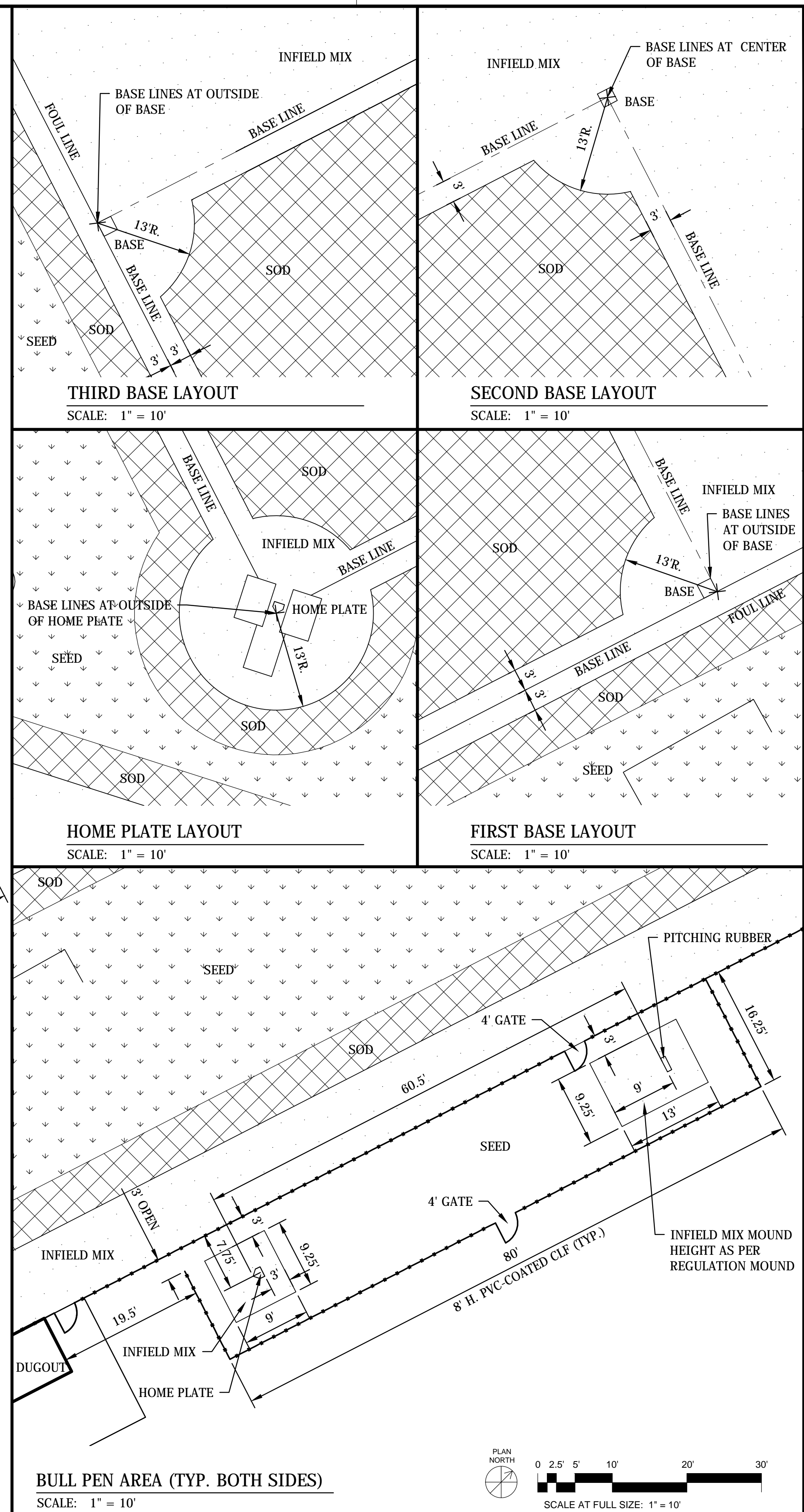
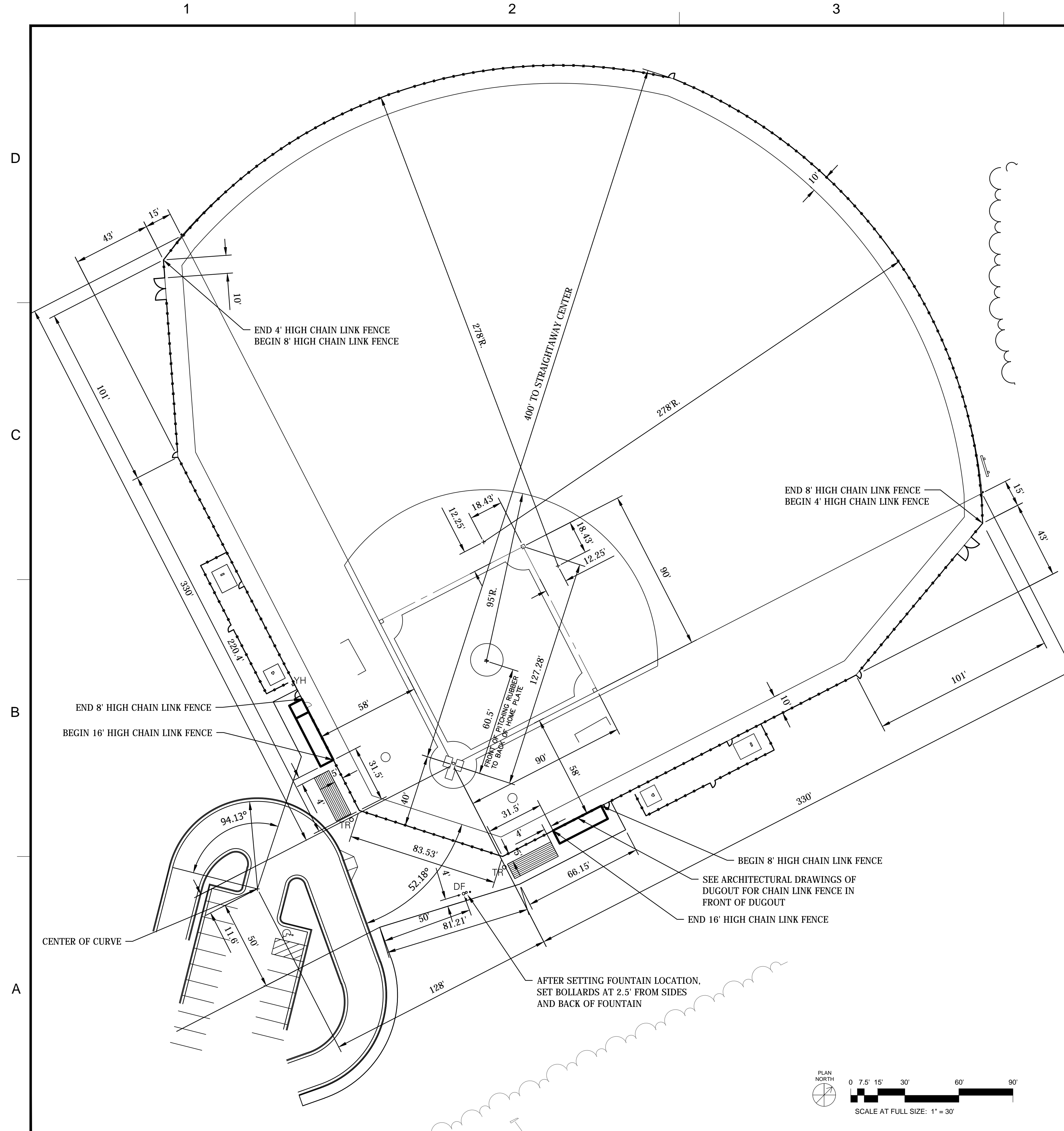
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Federal Reserve Bank Building
100 North 6th Street
Philadelphia, PA 19106
Tel: 215.520.2200 Fax: 215.519.9163

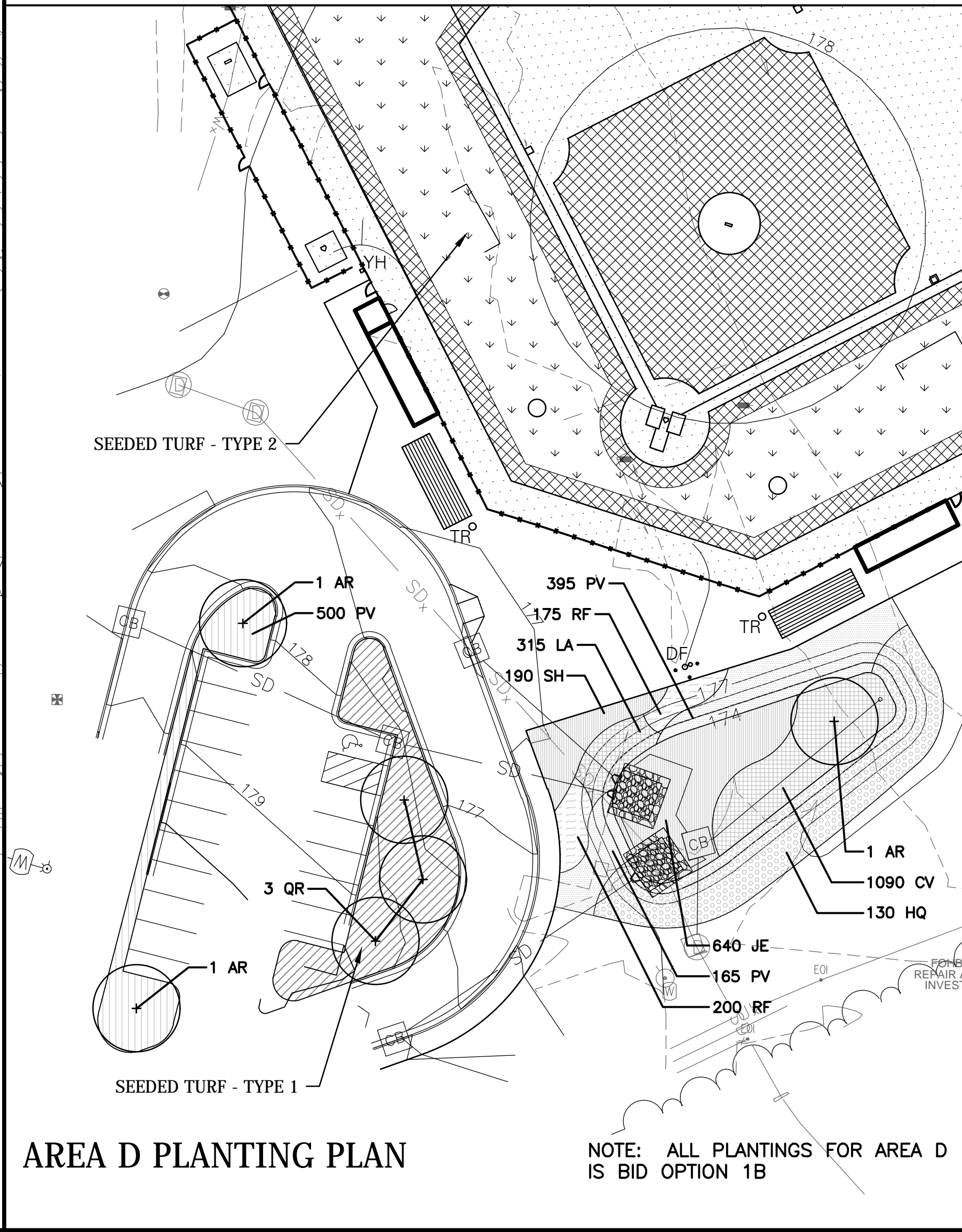
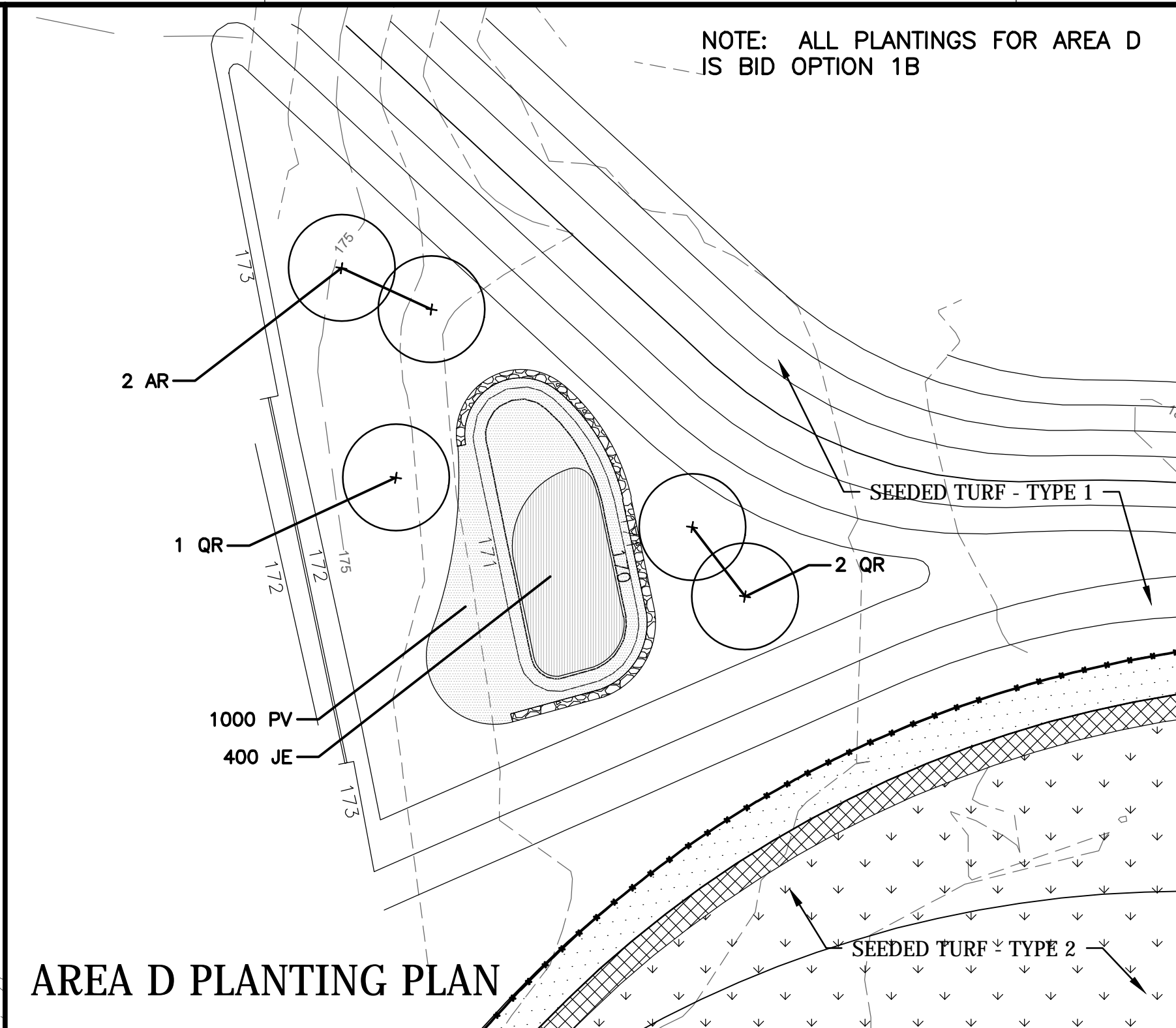
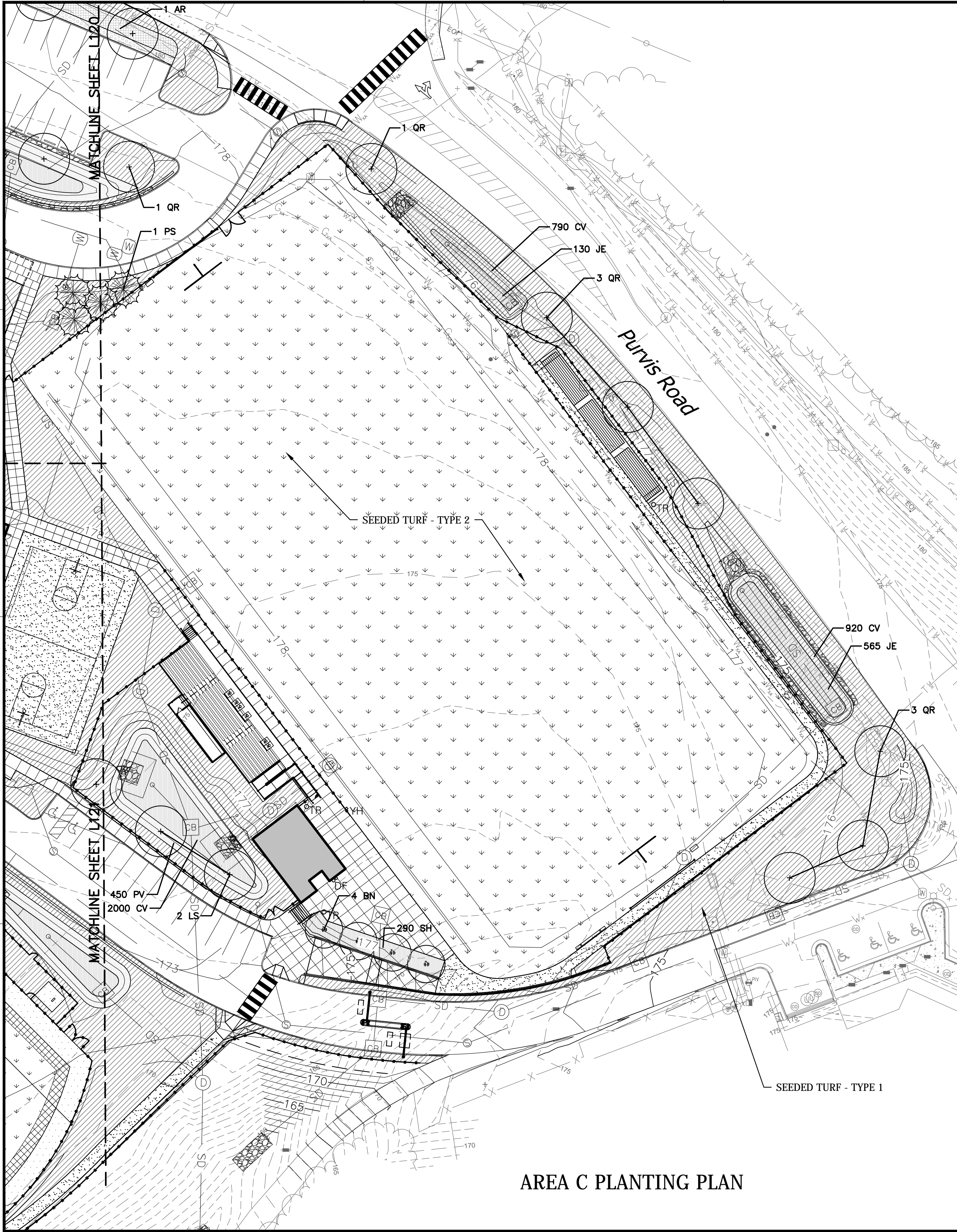
Calzone & Kaupp, Inc.
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www.calzonekaupp.com
A/E INFO











LEGEND

+ PROPOSED DECIDUOUS SHADE TREE

PROPOSED DECIDUOUS MULTI-STEM TREE

PROPOSED EVERGREEN TREE

PROPOSED SHRUB

PROPOSED HERBACEOUS PERENNIAL

PROPOSED HERBACEOUS PERENNIAL

PROPOSED HERBACEOUS PERENNIAL

PROPOSED SEEDED TURF TYPE 1

PROPOSED SEEDED TURF TYPE 2

NOTES:

- SEEDED TURF TYPE 1 MIX: 90% JUSTICE ELITE TALL FESCUE, 10% KENTUCKY BLUEGRASS (ALL NEW LAWN AREAS EXCEPT WHERE NOTED).
- SEEDED TURF TYPE 2 MIX: 50% JUSTICE ELITE TALL FESCUE, 25% VIRTUE II TALL FESCUE, 25% REBEL EXTREME TALL FESCUE (SPORTS FIELD AREAS).
- SOD EDGE AT INFELD MIX TRANSITION SHALL MATCH SEEDED TURF TYPE 2 MIX.

PLAN NORTH

0 7.5' 15' 30' 60' 90'

SCALE AT FULL SIZE: 1" = 30'

APPROVED

FOR COMMANDER NAVFAC ACTIVITY

SATISFACTORY TO DATE

Designer: MJJ Author: MJJ Checker: JRC

PM/DM

BRANCH MANAGER

CHIEF ENG/ ARCH

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON

DEPARTMENT OF THE NAVY

NAVFAC DRAWING NO. 13090862

SHEET 108 OF 789

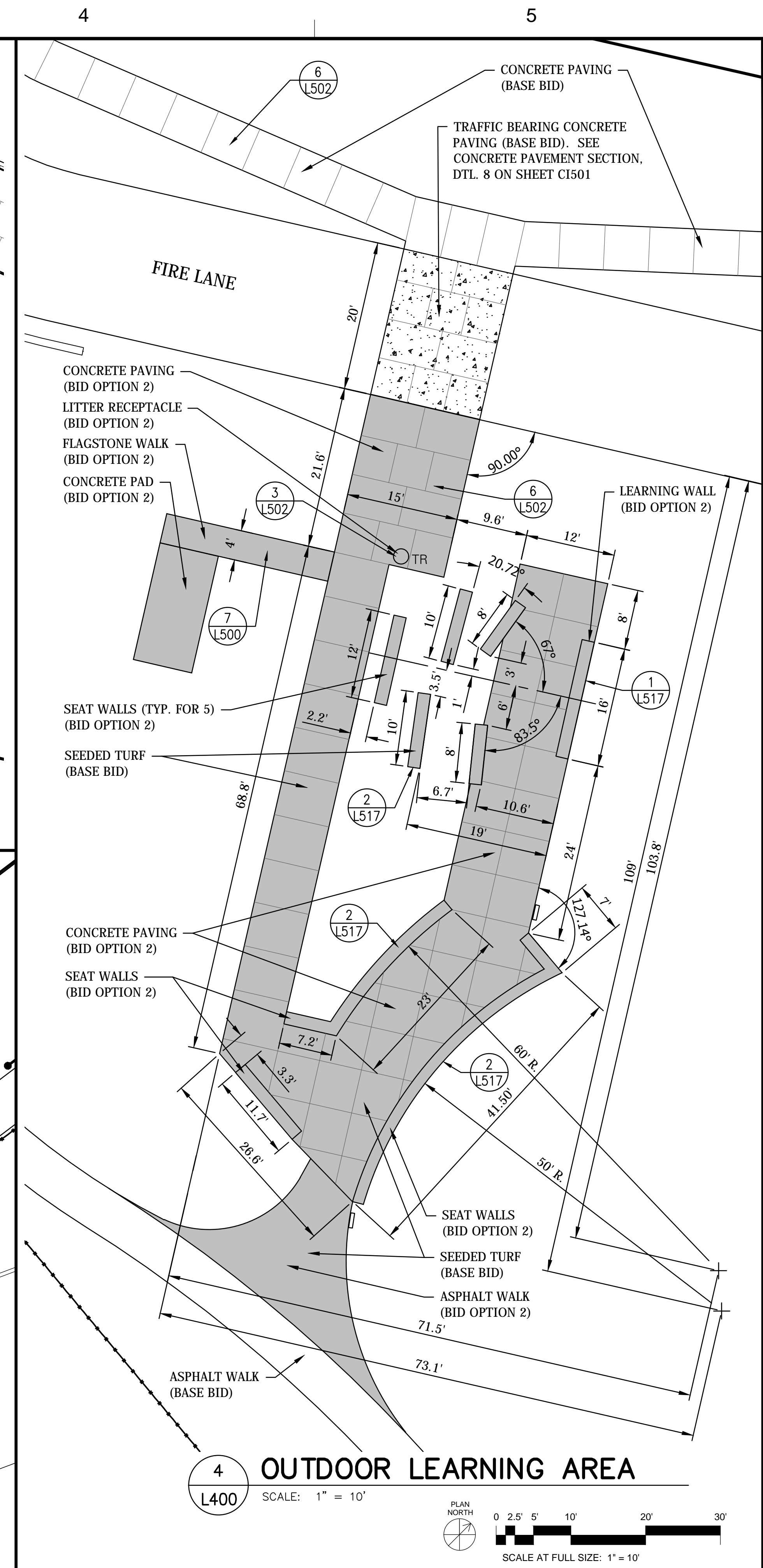
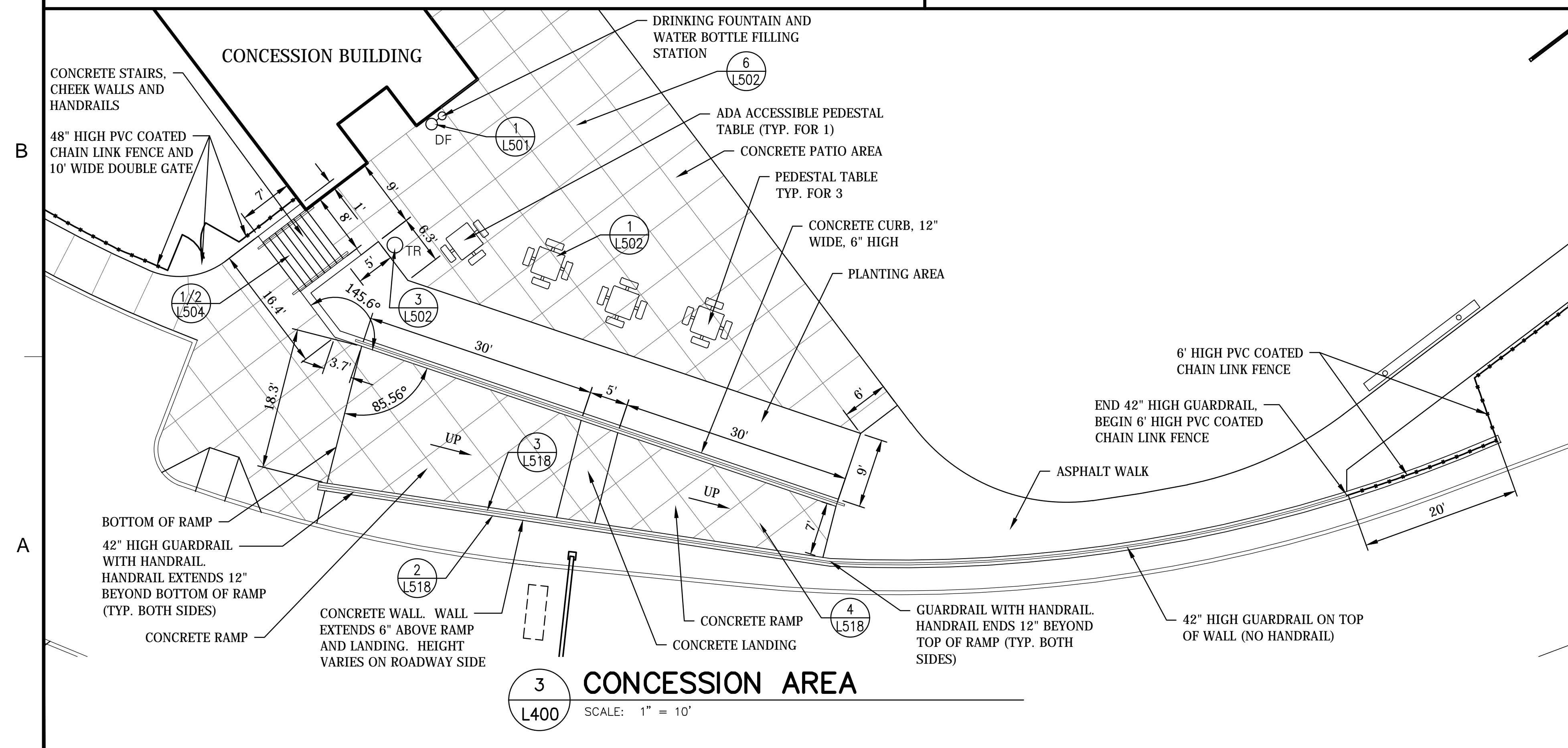
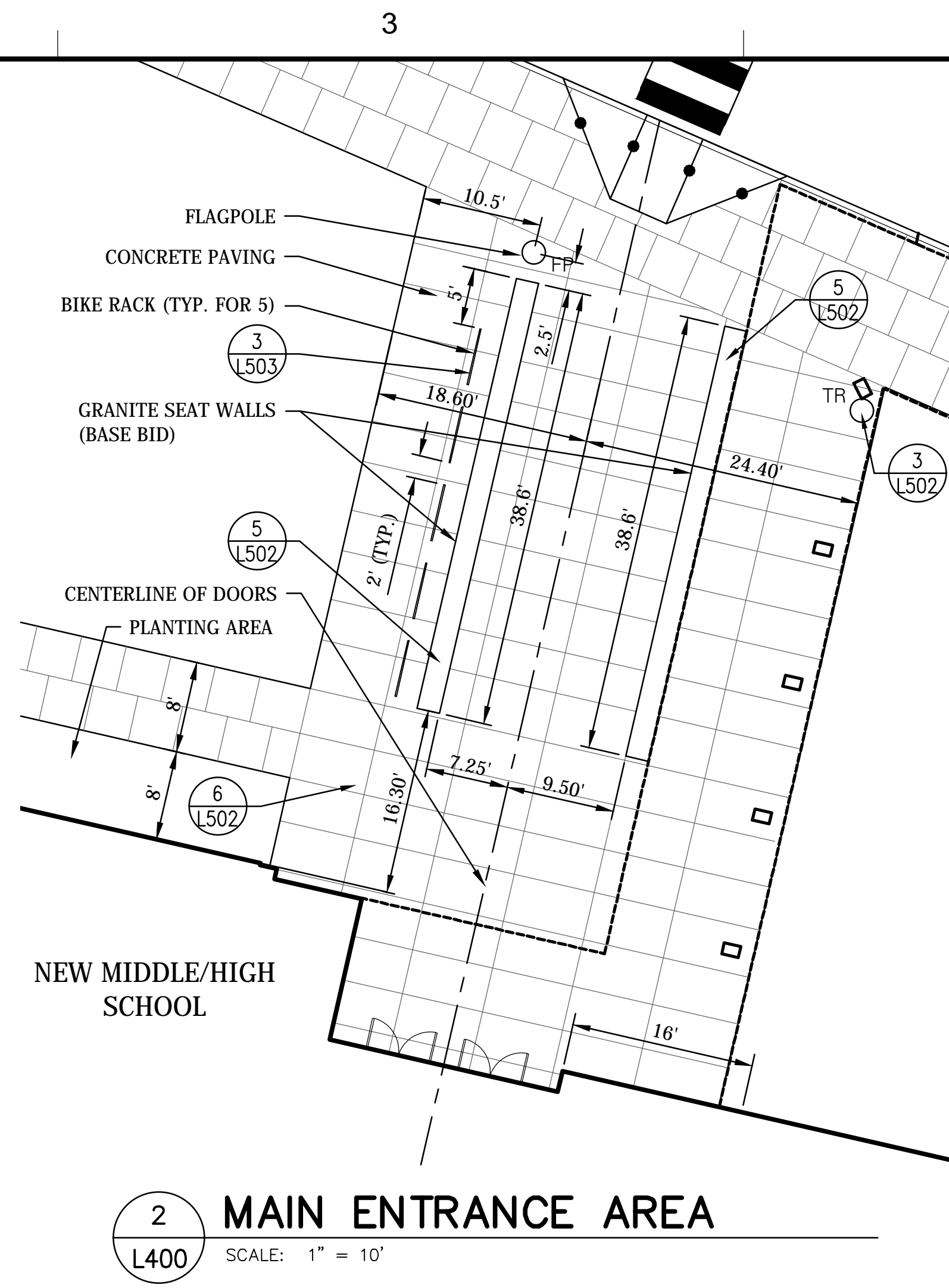
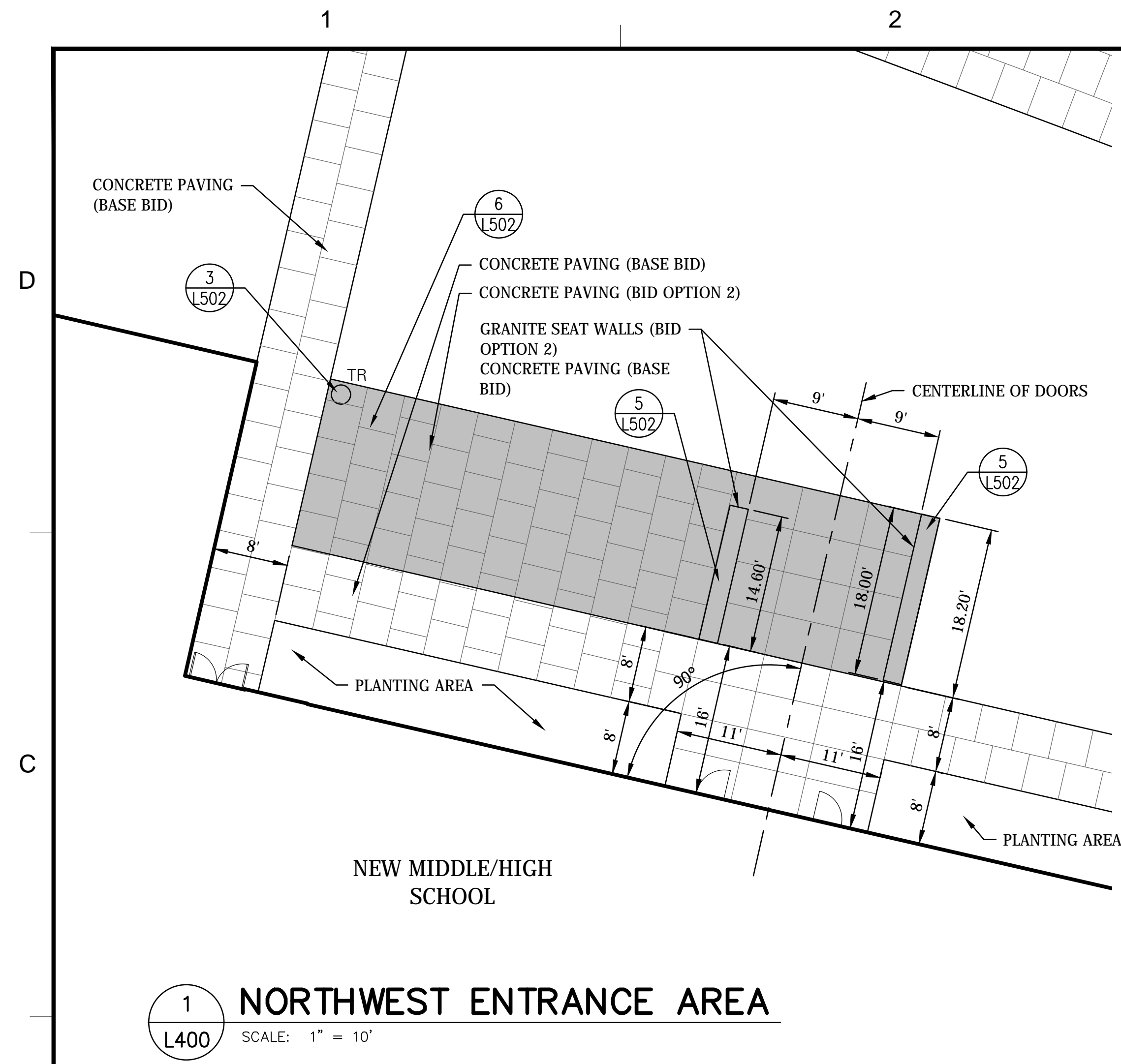
L122

REPLACE QUANTICO M/H SCHOOL

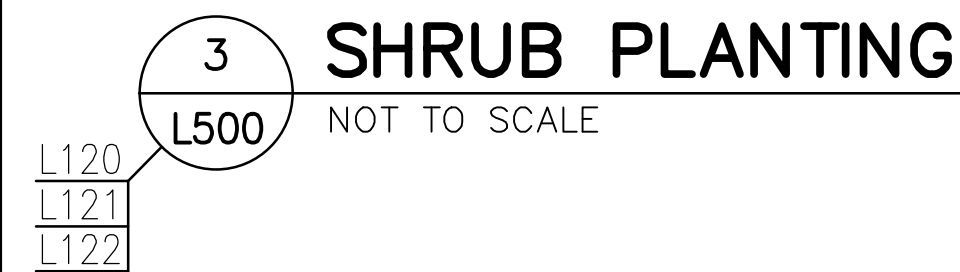
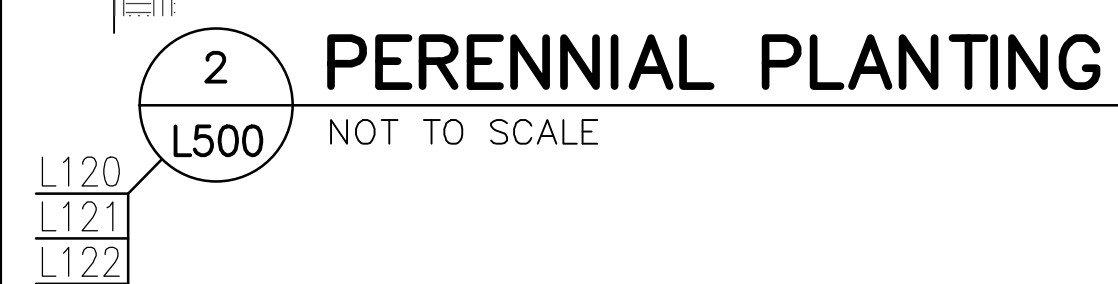
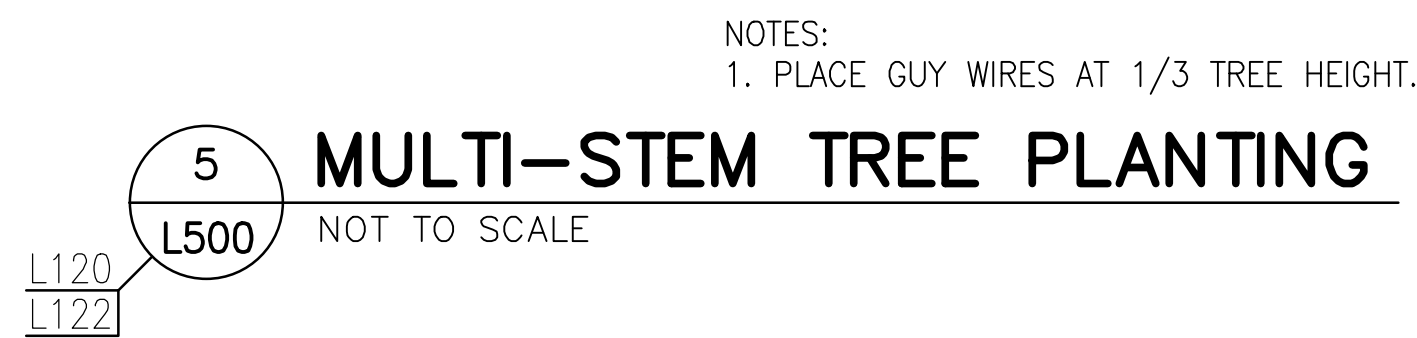
QUANTICO, VA

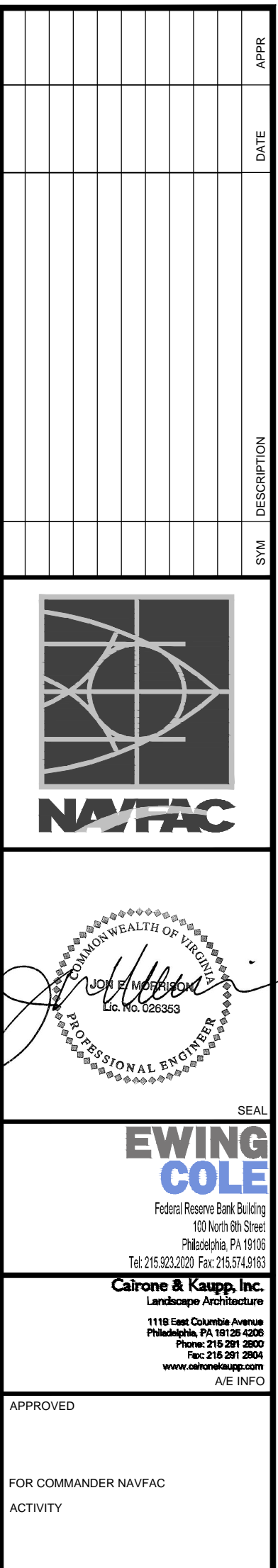
LANDSCAPE PLANTING PLAN AREA C AND D

RTA SUBMISSION - 10/13/2016



QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
		DECIDUOUS AND MULTI-STEM TREES				
2	BN	BETULA NIGRA 'HERITAGE'	HERITAGE RIVER BIRCH	14'-16' HT.	B&B	MULTI-STEM, MIN. 3 TRUNKS
8	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	3 1/2"-4" CAL	B&B	SINGLE-STEM, SPECIMEN
1	QA	QUERCUS ALBA	WHITE OAK	4 1/2"-5" CAL	B&B	SINGLE-STEM, SPECIMEN
		PERENNIALS AND GROUNDCOVERS				
740	LM	LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LIRIOPE	SP#4		12" O.C. SPACING





1

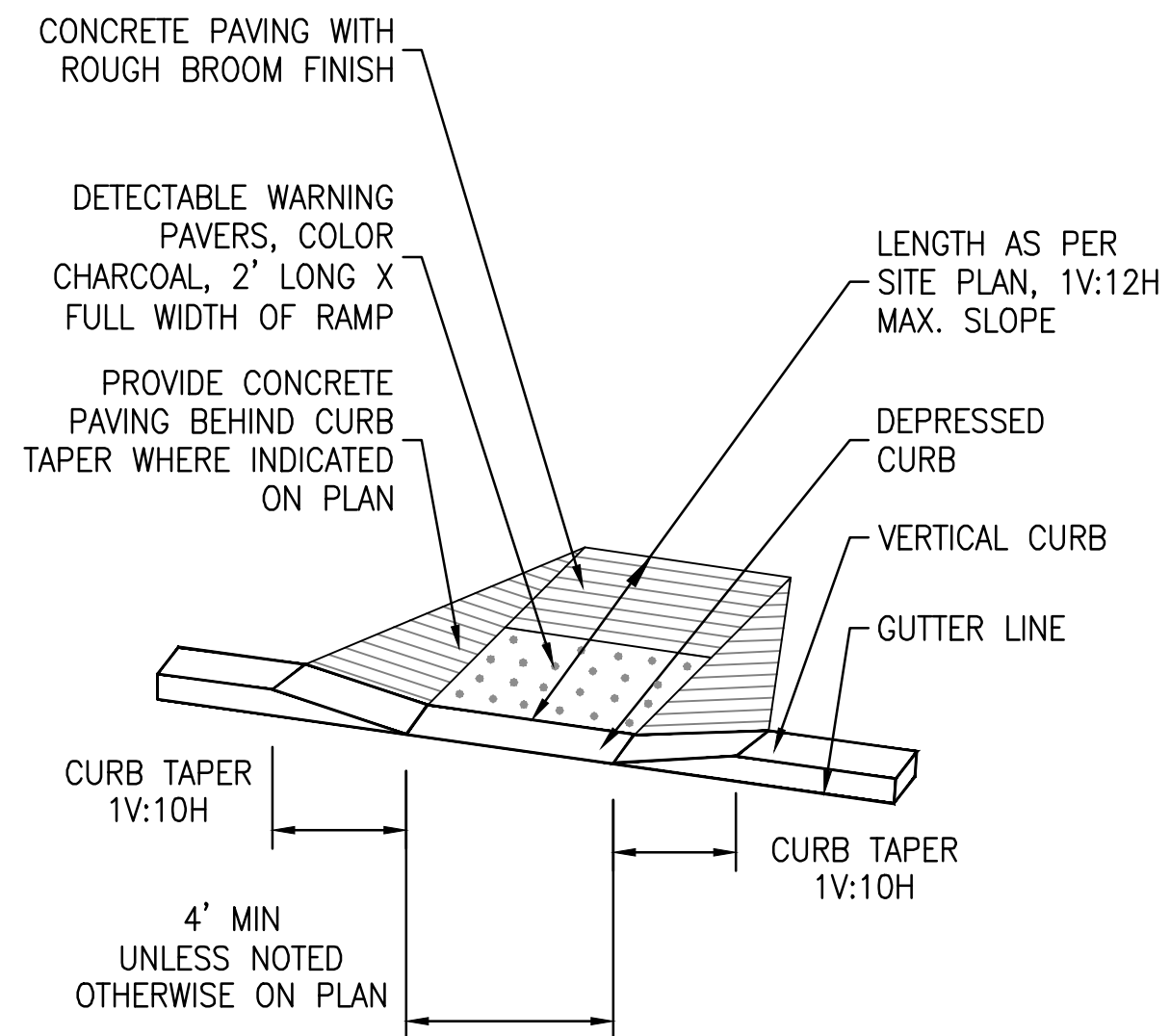
2

3

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D



NOTES

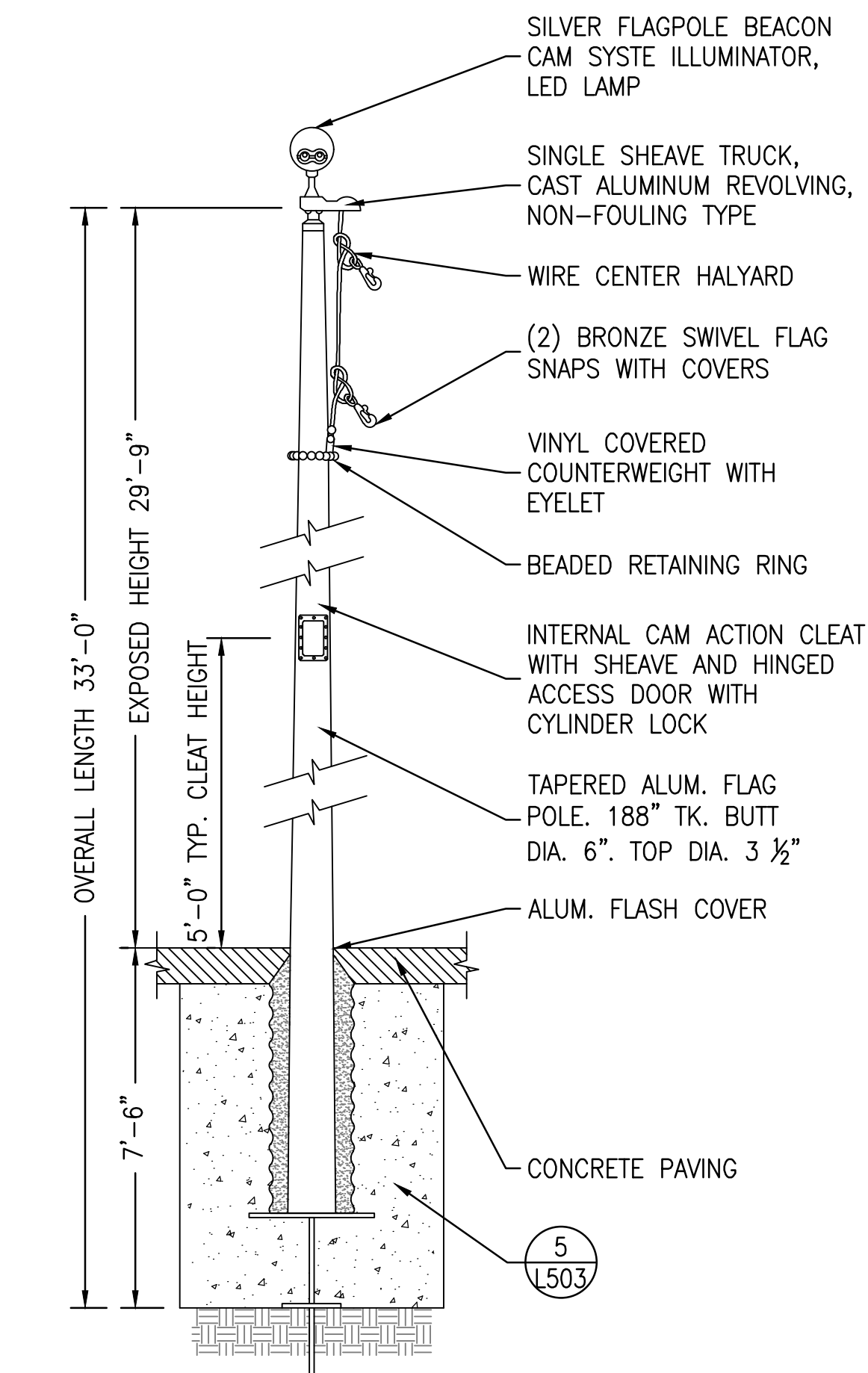
1. SEE SHEET L-401 FOR ADDITIONAL INFORMATION FOR ACCESSIBLE RAMPS AND DIMENSIONS.

7 TYPICAL ACCESSIBLE RAMP

L503 NOT TO SCALE

B

A



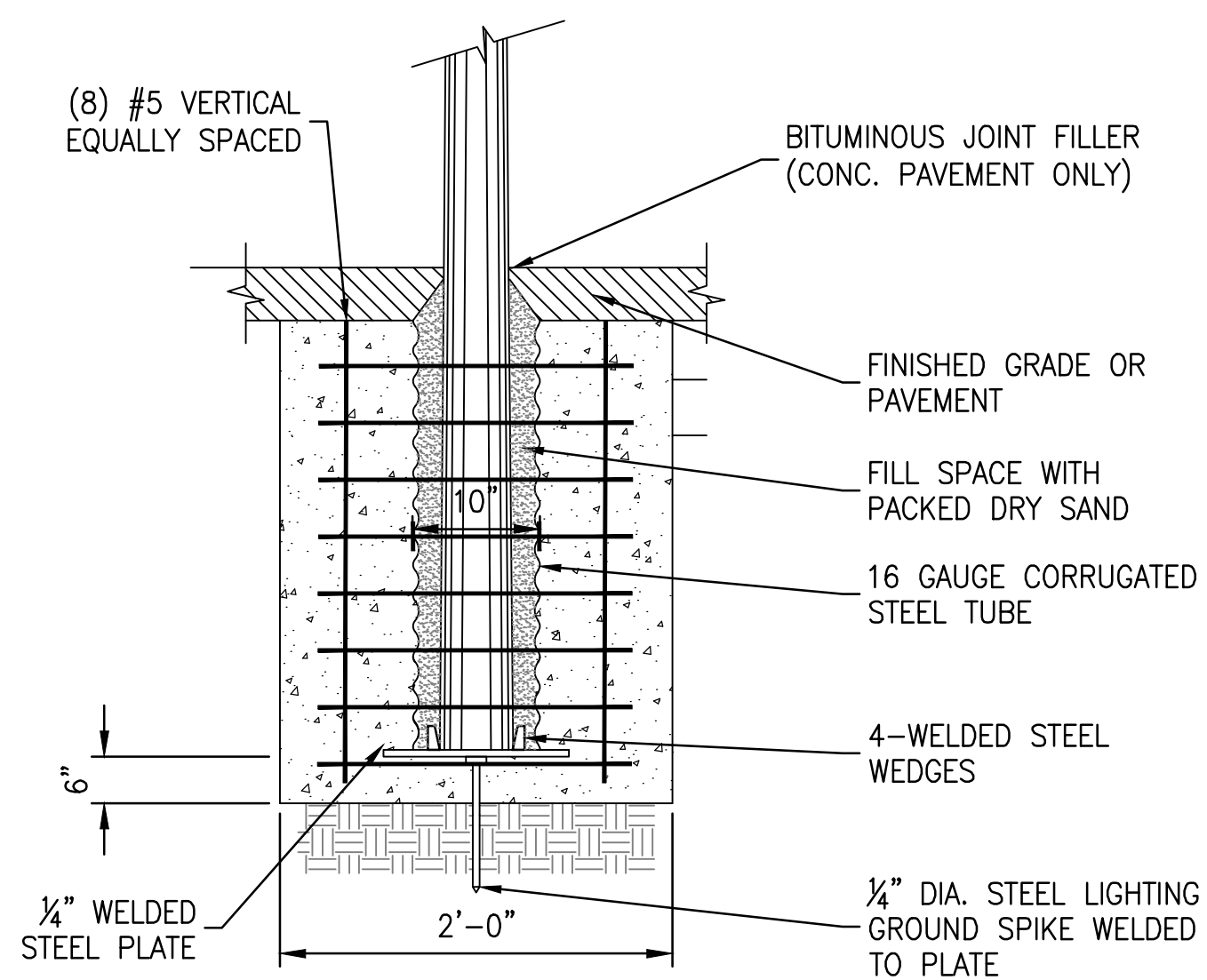
6 FLAGPOLE

L503 NOT TO SCALE

L100
L400

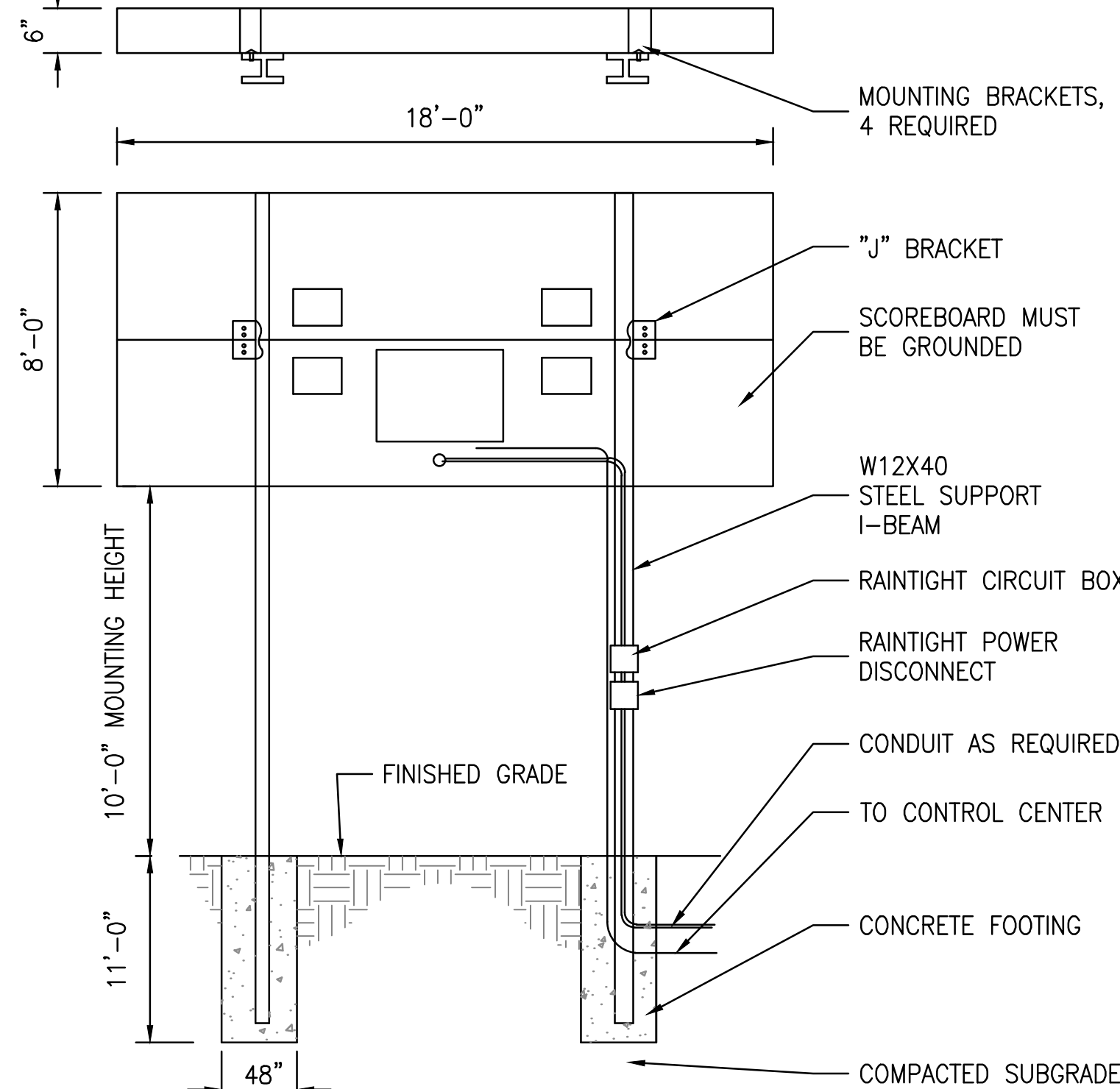
NOTES

1. FLAGPOLE SHALL HAVE EXTERNAL HALYARD WITH A SHOE BASE AND A CLEAR ANODIZED 6-INCH DIAMETER ALUMINUM BALL WITH FLUSH SEAM.
2. FLAGPOLE SHALL BE ALLOY 6063-T6 ALUMINUM TUBING WITH UNIFORM CONICAL TAPER. BUTT DIAMETER SHALL BE APPROXIMATELY 6 INCHES AND THE TOP DIAMETER SHALL BE APPROXIMATELY 3-1/2". POLE SHALL BE DIRECTIONAL SANDED SATIN GROUND.
3. TRUCK SHALL BE DOUBLE METAL SHEAVE CAST ALUMINUM REVOLVING TYPE WITH STAINLESS STEEL BEARINGS. HALYARDS SHALL BE #10 (3/16" DIA.) BRAIDED POLYPROPYLENE ROPE WITH TWO CHROME-PLATED BRONZE SWIVEL SNAPHOOKS.
4. PROVIDE TWO 9" CAST ALUMINUM CLEATS ATTACHED WITH TWO STAINLESS STEEL SCREWS.
5. SHOE BASE SHALL BE CAST ALUMINUM WITH FOUR GALVANIZED STEEL ANCHOR BOLTS (LENGTH AS RECOMMENDED BY THE MANUFACTURER). THE BASE SHALL HAVE A SPUN ALUMINUM FLASH COLLAR FINISHED TO MATCH THE POLE.
6. FOUNDATION IS DESIGNED FOR ONE 5'x8' FLAG IN 155-MPH WIND OR TWO 5'x8' FLAGS IN 115-MPH WIND.



5 FLAGPOLE FOOTING

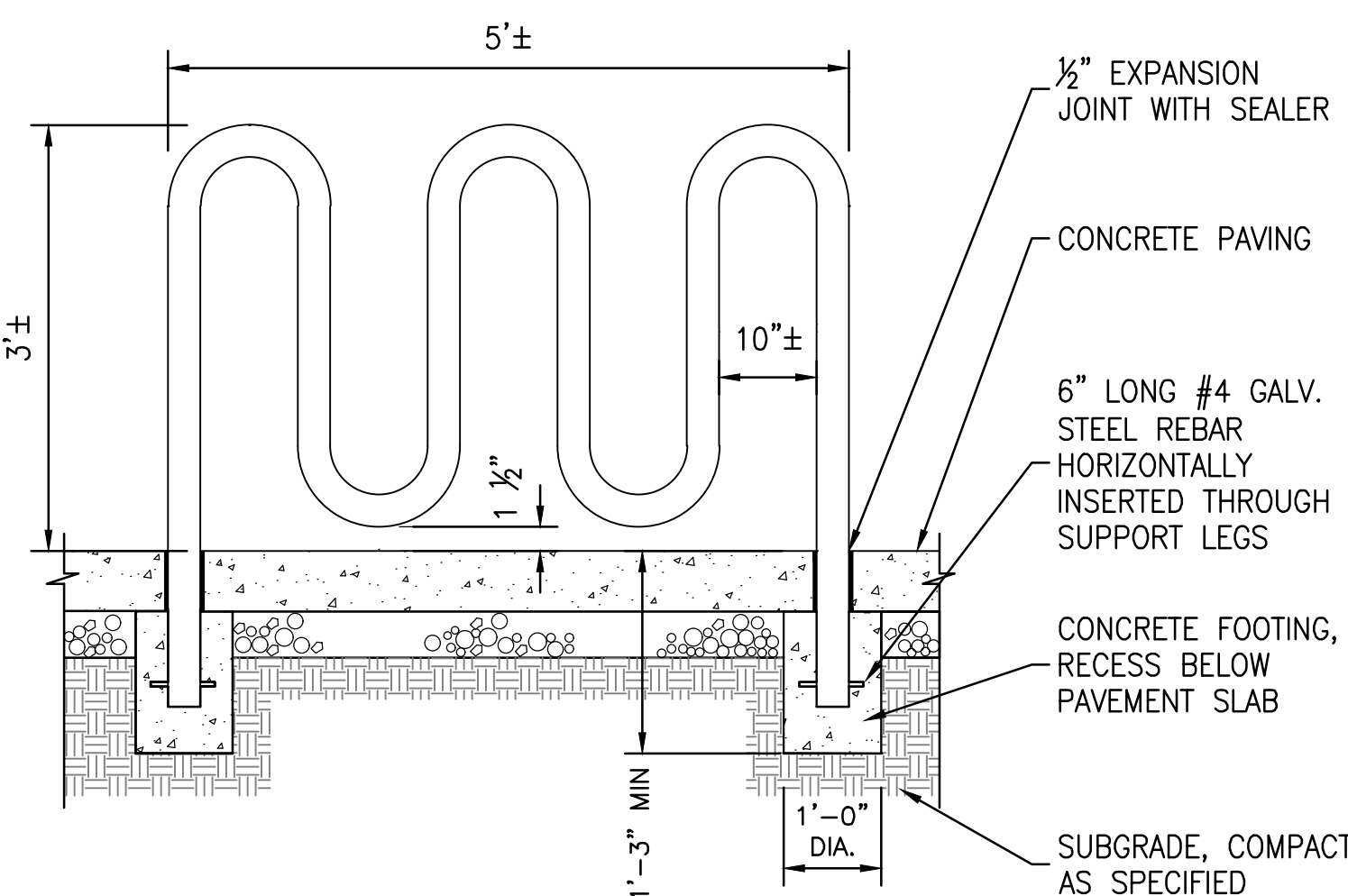
L503 NOT TO SCALE

L100
L400

1 MULTI-SPORT LED SCOREBOARD

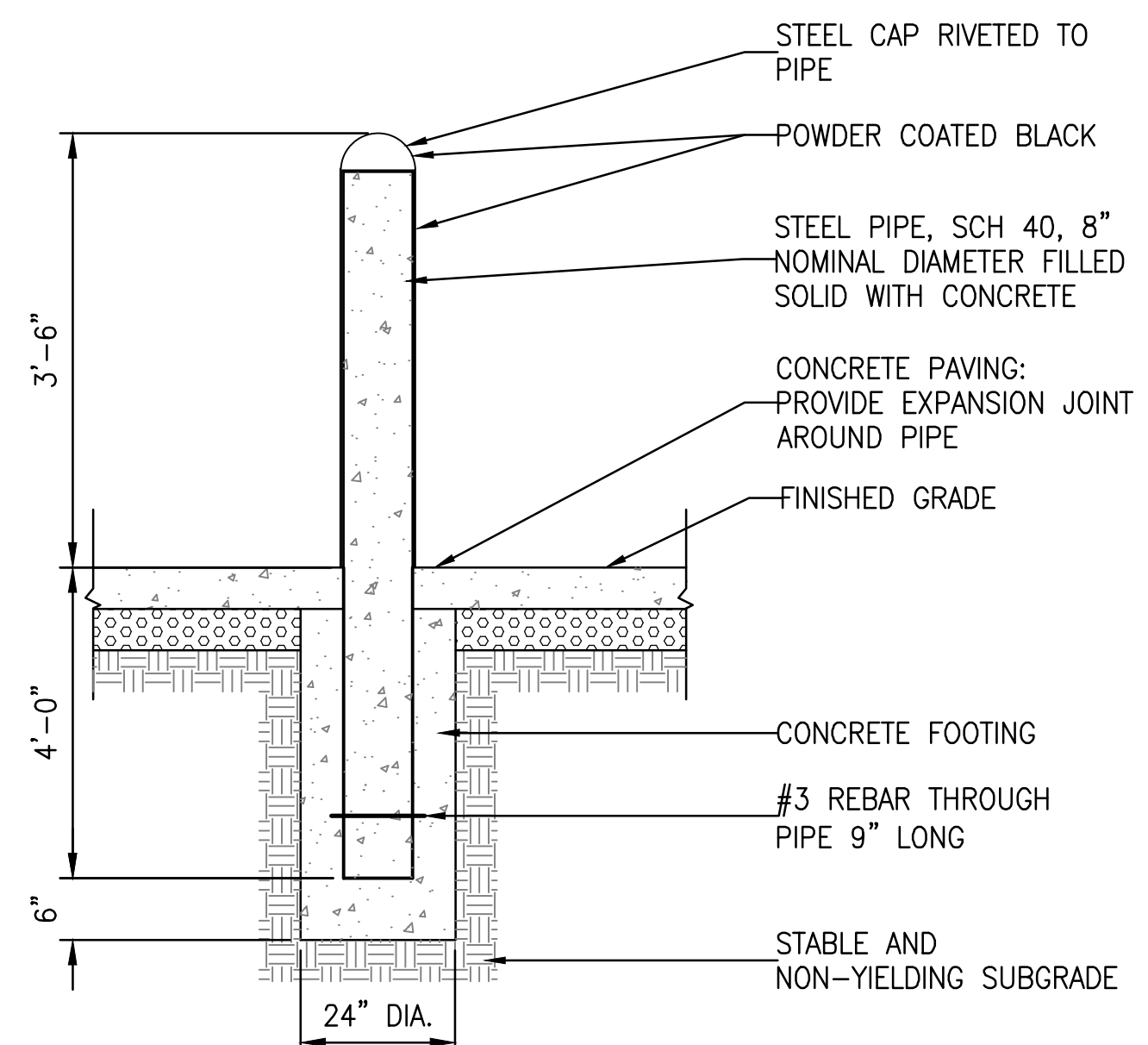
L503 NOT TO SCALE

L102



3 BIKE RACK

L503 NOT TO SCALE

L100
L400

2 METAL BOLLARD

L503 NOT TO SCALE

L100
L400

APPROVED	DATE
FOR COMMANDER NAVFAC	DATE
ACTIVITY	DATE
SATISFACTORY TO	DATE
Designer: MJJ	Author: MJJ
Checker: JRC	
PMOM	
BRANCH MANAGER	
CHIEF ENG/ ARCH	
FIRE PROTECTION	
NAVAL FACILITIES ENGINEERING COMMAND	QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL	
LANDSCAPE ARCHITECTURAL DETAILS	
SCALE: AS NOTED	
PROJECT NO.: P-021	
CONSTR. CONTR. NO.: W91236-15-C-0023	
NAVFAC DRAWING NO.: 13090868	
SHEET 114 OF 789	
L503	

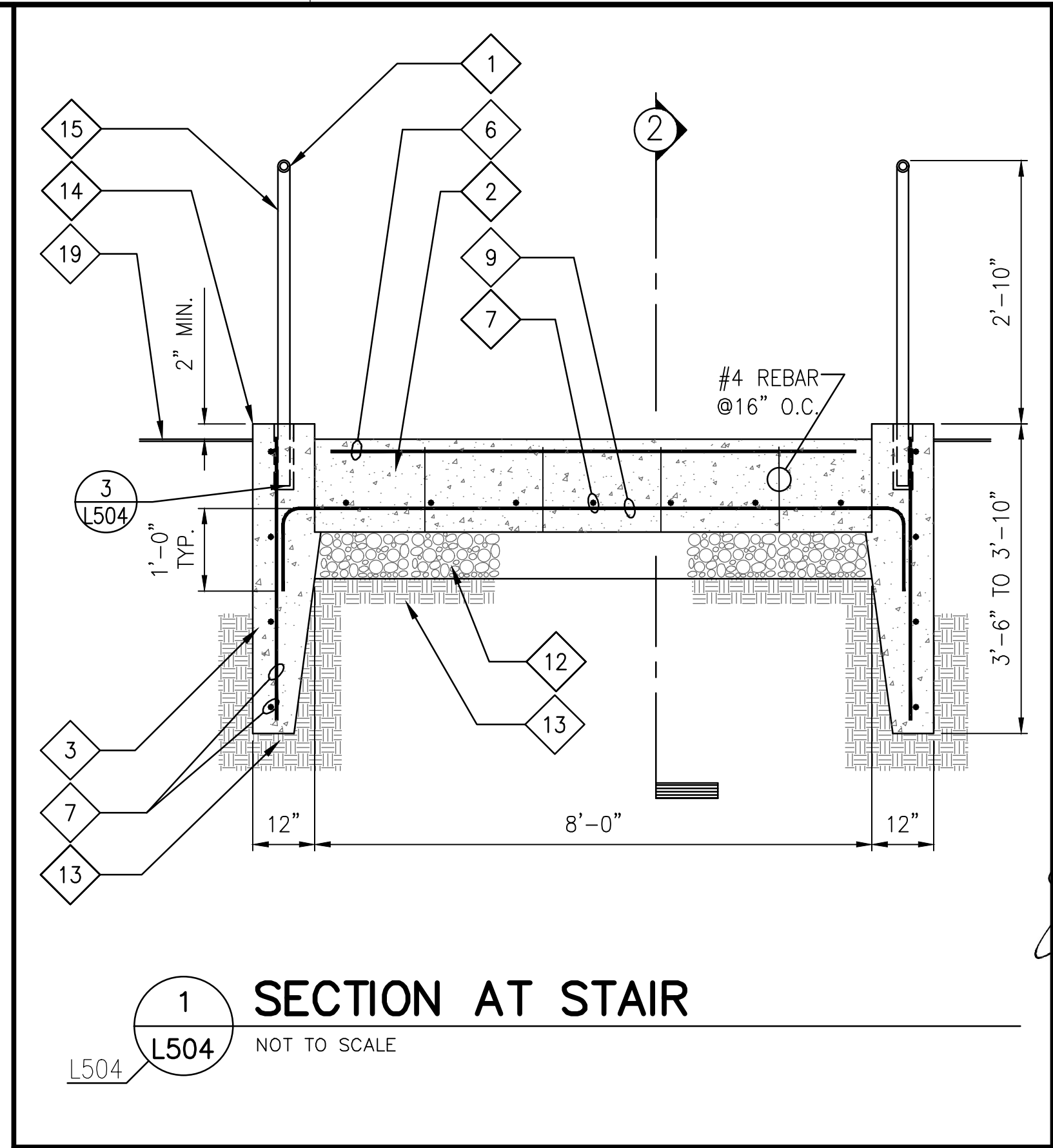
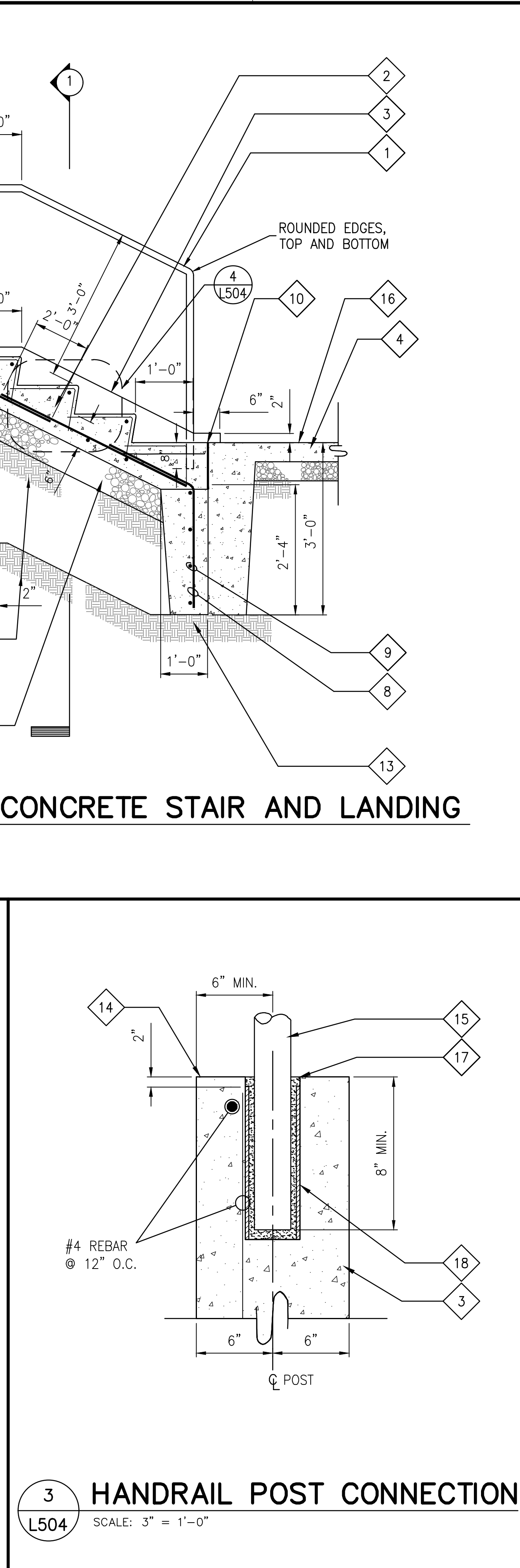
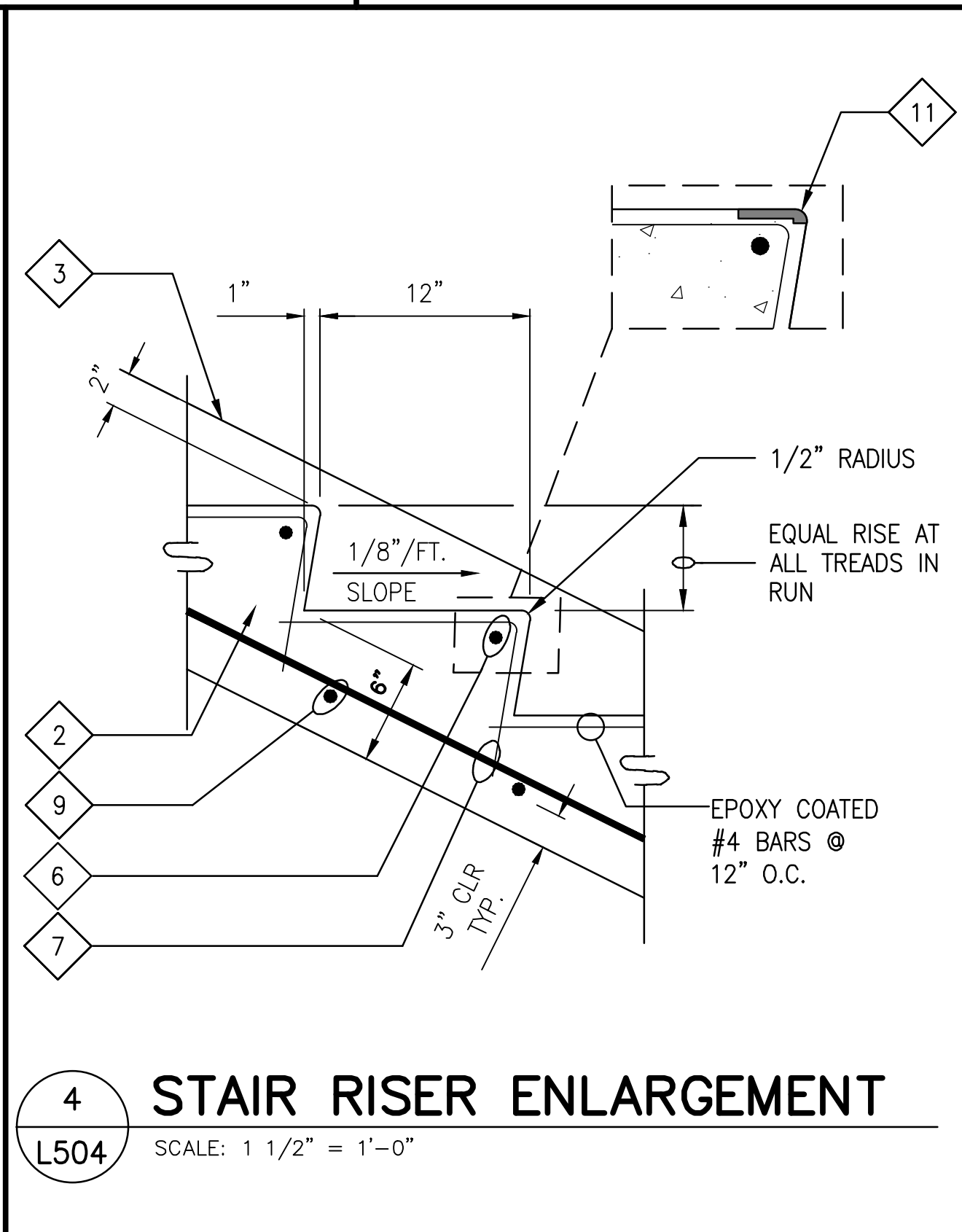
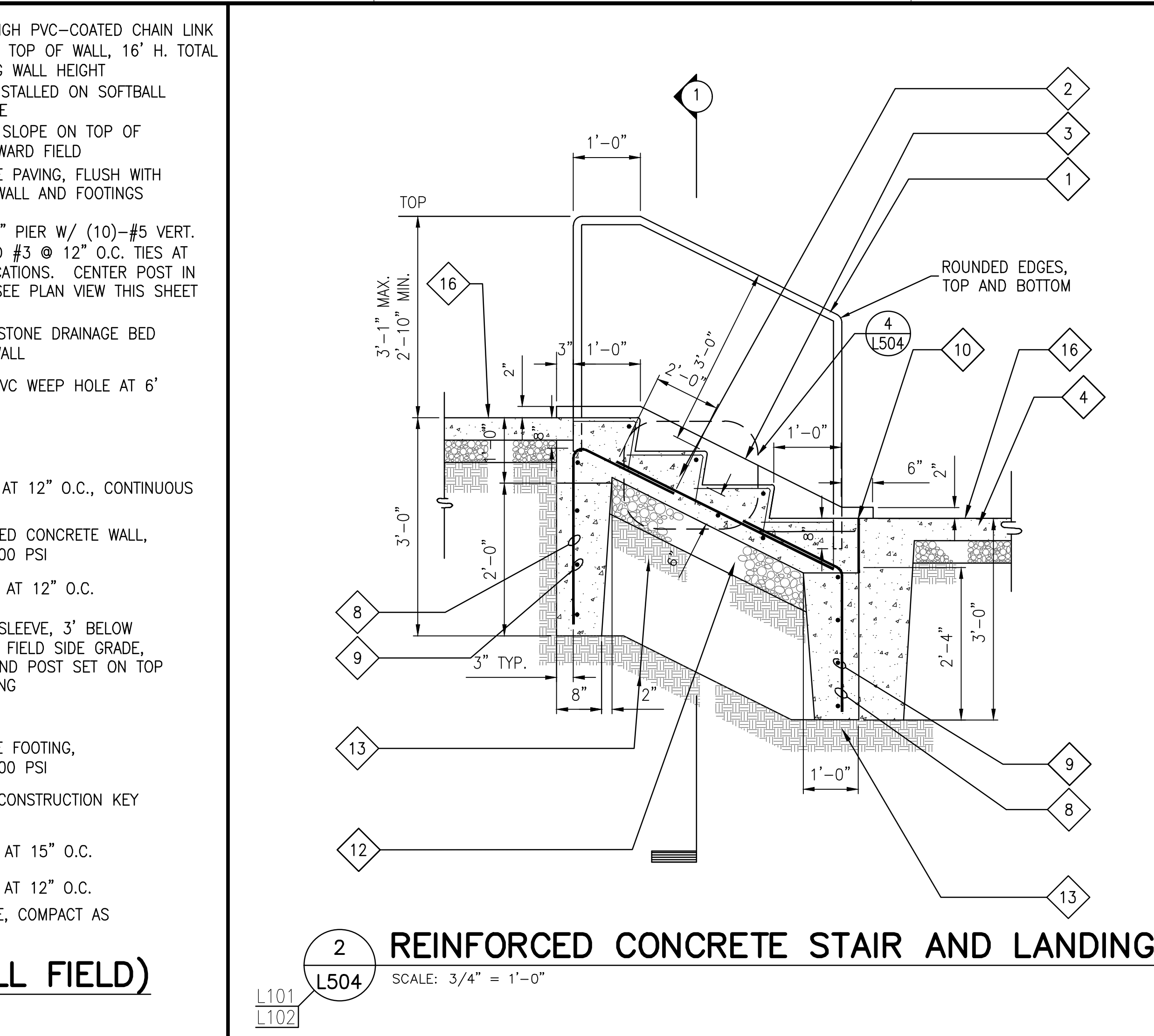
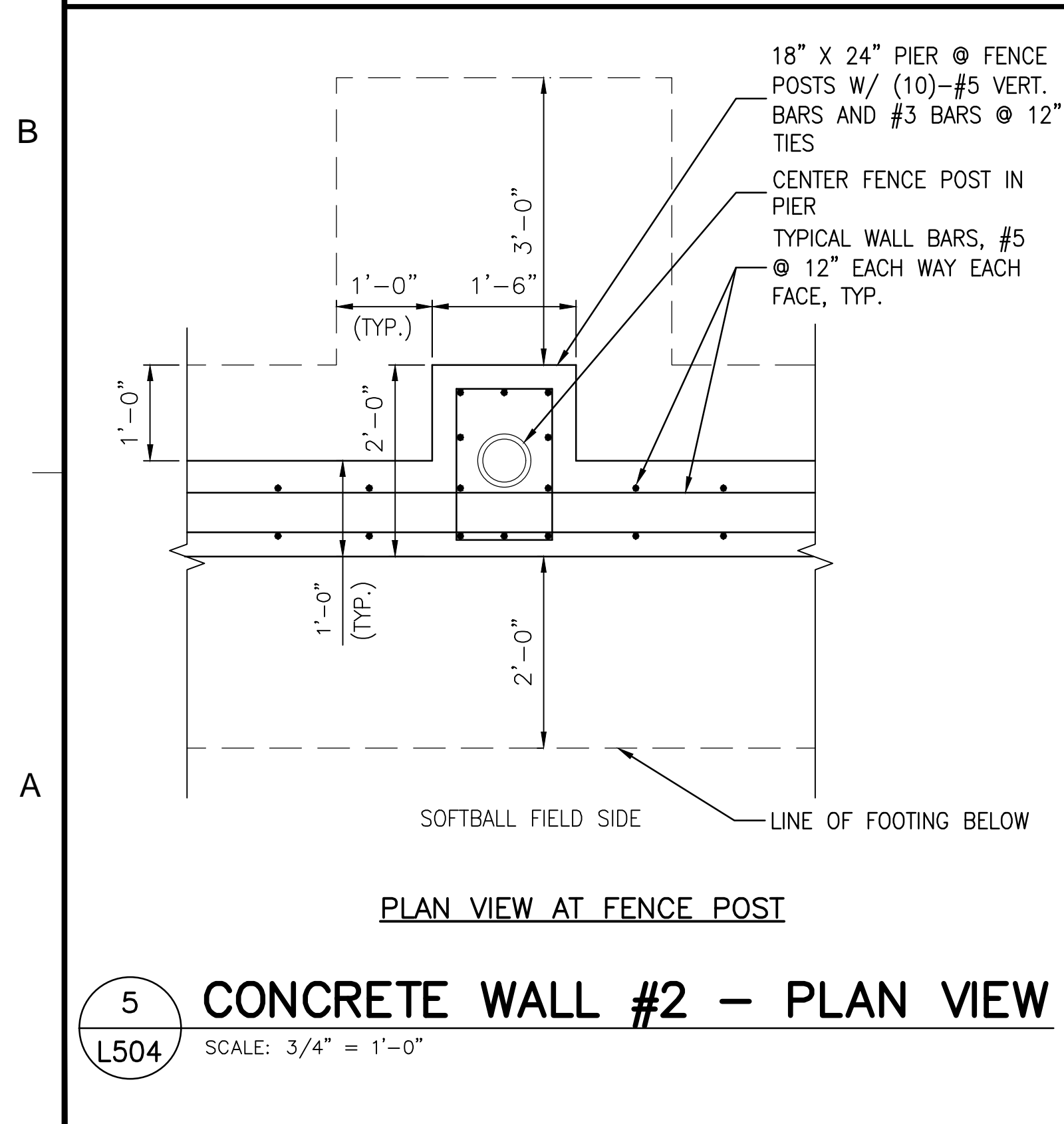
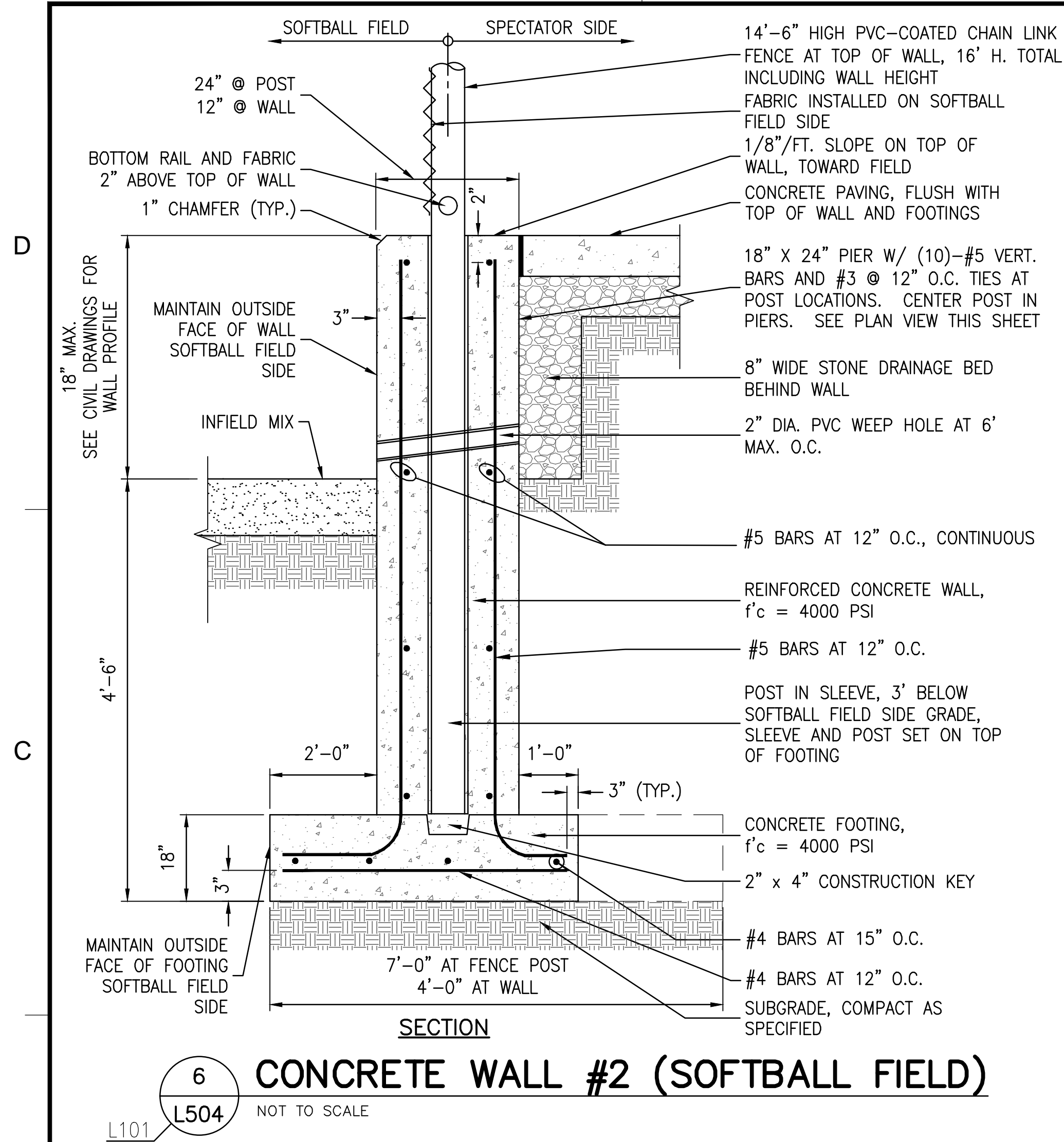
1

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KEY

- 1 1 1/2" DIA. NOMINAL (1.90" O.D.) SCHEDULE 40 POWDER COATED STEEL HANDRAIL AT STAIRS, COLOR BLACK
- 2 REINFORCED CONCRETE STAIR
- 3 REINFORCED CONCRETE CHEEK WALL
- 4 CONCRETE PAVING
- 5 (NOT USED)
- 6 EPOXY COATED #3 BAR AT NOSE, 2" COVER
- 7 EPOXY COATED #4 BARS @ 12" O.C.
- 8 EPOXY COATED #4 BARS (VERT.) @ 12" O.C.
- 9 EPOXY COATED #4 BARS (HORIZ.) @ 12" O.C.
- 10 1/2" EXPANSION JOINT
- 11 ALUMINUM ANTI-SLIP SAFETY STAIR NOSING
- 12 SUBBASE, 6" THICK
- 13 STABLE AND NON-YIELDING SUBGRADE
- 14 1/2" CHAMFER AT EDGE (TYP.)
- 15 1 1/2" DIA. NOMINAL (1.90" O.D.) SCHEDULE 40 POWDER COATED STEEL HANDRAIL POST, COLOR BLACK
- 16 FINISHED GRADE. BEAR SIDEWALK ON STAIR TURN DOWN AT TOP OF STAIR, AND TURN DOWN CONCRETE AS SHOWN AT BOTTOM OF STAIR TO PREVENT DIFFERENTIAL SETTLEMENT
- 17 NON-SHRINK GROUT, SLOPE TOP TO DRAIN
- 18 2 1/2" DIA. NOMINAL (2.47" I.D.) SCHEDULE 40 GALV. STEEL PIPE SLEEVE, CAST INTO CHEEK WALL/CURB
- 19 FINISHED GRADE AT SIDE OF STAIR CHEEK WALL

DATE	APPR.
DESCRIPTION	SYM.

NAVAFAC

PROFESSIONAL ENGINEER

SEAL

EWING COLE

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www.calronekaupp.com
A/E INFO

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ACTIVITY

SATISFACTORY TO DATE

Designer: MJJ Author: MJJ Checker: JRC

PMOM

BRANCH MANAGER

CHIEF ENG/ ARCH

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
MARINE CORPS BASE QUANTICO, VIRGINIA
QUANTICO, VA

REPLACE QUANTICO M/H SCHOOL

LANDSCAPE ARCHITECTURAL DETAILS

DEPARTMENT OF THE NAVY

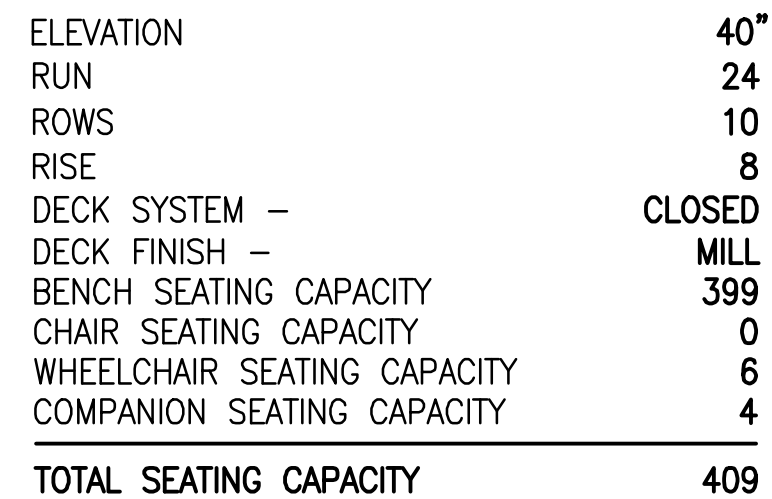
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CONSTR. CONTR. NO.: W91236-15-C-0023

NAVAFAC DRAWING NO.: 13090869

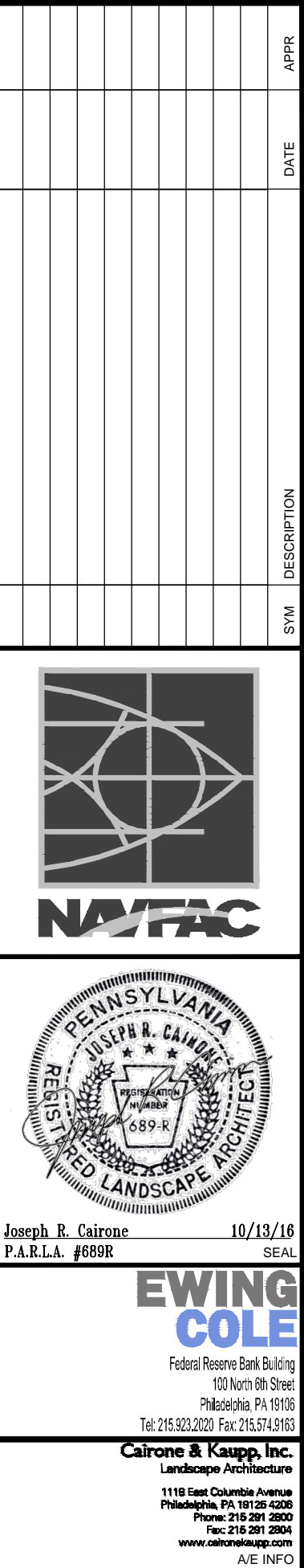
SHEET 115 OF 789

L504

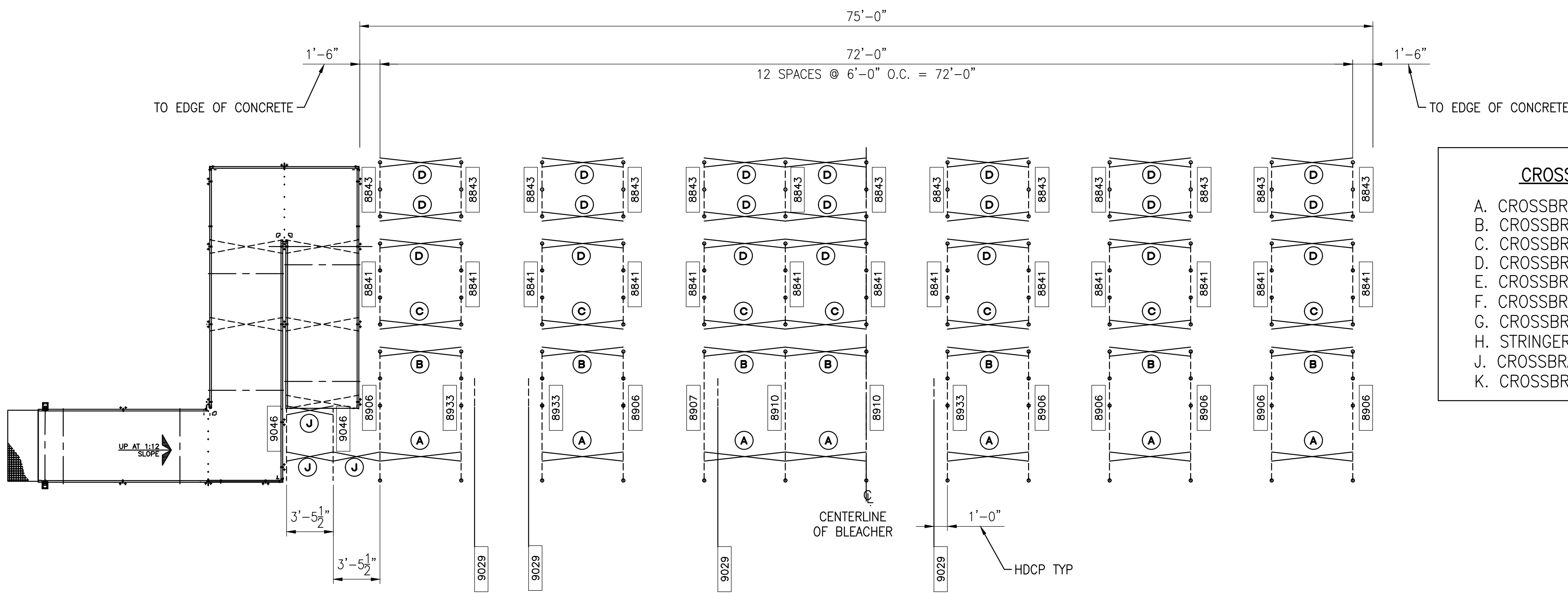


NOTE: THIS SHEET IS STRICTLY FOR INFORMATION ONLY ON THE BLEACHER AND PRESS BOX SYSTEM FOR OVERALL SIZE, SEATING CAPACITY AND ALL OTHER GENERAL QUANTITIES REQUIRED TO BID THE BLEACHER AND PRESS BOX. SUBMIT A LETTER OF CERTIFICATION PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER (REGISTERED IN THE COMMONWEALTH OF VIRGINIA) EMPLOYED BY THE MANUFACTURER CERTIFYING THE FOLLOWING:

1. THE AFOREMENTIONED ENGINEER IS FULLY EXPERIENCED IN THE DESIGN OF BLEACHERS AND PRESS BOXES.
2. ALL SHOP DRAWINGS (INCLUDING ALL SUPPORTS, CONNECTIONS AND COMPONENTS) SHALL BE PREPARED UNDER THE DIRECTION OF THE AFOREMENTIONED ENGINEER, IN COMPLIANCE WITH THE CONTRACT DOCUMENT REQUIREMENTS AND APPLICABLE BUILDING CODES. HIS/HER SEAL AND SIGNATURE SHALL APPEAR ON ALL SHOP DRAWINGS. THE AFOREMENTIONED SHOP DRAWINGS SHALL INCLUDE SUFFICIENT INFORMATION TO ENABLE THE CONTRACTING OFFICER TO CONFIRM THAT DESIGN LOADS, SUPPORT POINTS AND TIE BACKS ARE IN COMPLIANCE WITH THE DESIGN CRITERIA. THIS ENGINEER'S CERTIFICATION LETTER MUST BE RECEIVED BY THE CONTRACTING OFFICER PRIOR TO THE SUBMISSION OF THE SHOP DRAWINGS AND SHALL BEAR THE SEAL AND SIGNATURE OF THE AFOREMENTIONED ENGINEER.
3. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



1 L506 GRANDSTAND SEATING PLAN SCALE: 3/16"=1'-0"

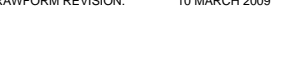


CROSSBRACE

- A. CROSSBRACE = 77 1/8"
- B. CROSSBRACE = 81 5/8"
- C. CROSSBRACE = 88"
- D. CROSSBRACE = 103 1/8"
- E. CROSSBRACE = 111 1/8"
- F. CROSSBRACE = 121 3/16"
- G. CROSSBRACE = 94 7/16"
- H. STRINGER BRACE = 73 1/4"
- J. CROSSBRACE = 48 3/4"
- K. CROSSBRACE = 75"

2 L506 GRANDSTAND FRAMING PLAN SCALE: 3/16"=1'-0"

1. THE FOREMENTIONED ENGINEER IS FULLY EXPERIENCED IN THE DESIGN OF BLEACHERS AND PRESS BOXES.
2. ALL SHOP DRAWINGS (INCLUDING ALL SUPPORTS, CONNECTIONS AND COMPONENTS) SHALL BE PREPARED UNDER THE DIRECTION OF THE FOREMENTIONED ENGINEER, IN COMPLIANCE WITH THE CONTRACT DOCUMENT REQUIREMENTS AND APPLICABLE BUILDING CODES. HIS/HER SEAL AND SIGNATURE SHALL APPEAR ON ALL SHOP DRAWINGS. THE FOREMENTIONED SHOP DRAWINGS SHALL INCLUDE SUFFICIENT INFORMATION TO ENABLE THE CONTRACTING OFFICER TO CONFIRM THAT DESIGN LOADS, SUPPORT POINTS AND TIE BACKS ARE IN COMPLIANCE WITH THE DESIGN CRITERIA. THIS ENGINEER'S CERTIFICATION LETTER MUST BE RECEIVED BY THE CONTRACTING OFFICER PRIOR TO THE SUBMISSION OF THE SHOP DRAWINGS AND SHALL BEAR THE SEAL AND SIGNATURE OF THE FOREMENTIONED ENGINEER.
3. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



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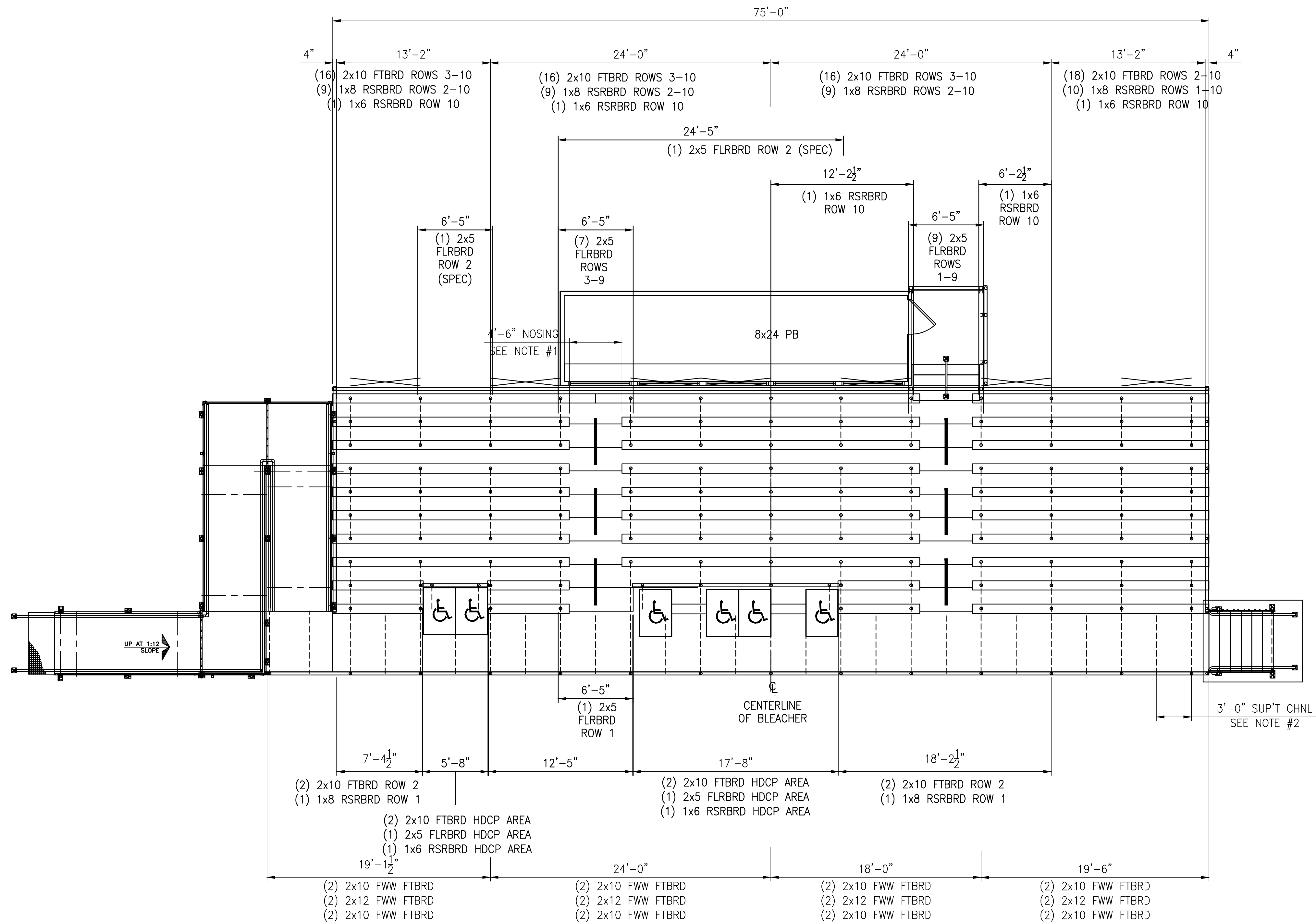
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D

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1

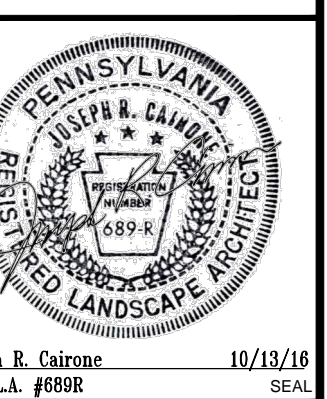
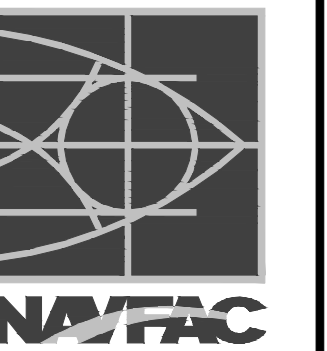
L508

GRANDSTAND CLOSED DECK SYSTEM – PLANK LAYOUT

SCALE: 3/16" = 1'-0"

NOTE: THIS SHEET IS STRICTLY FOR INFORMATION ONLY ON THE BLEACHER AND PRESS BOX SYSTEM FOR OVERALL SIZE, SEATING CAPACITY AND ALL OTHER GENERAL QUANTITIES REQUIRED TO BID THE BLEACHER AND PRESS BOX. SUBMIT A LETTER OF CERTIFICATION PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER (REGISTERED IN THE COMMONWEALTH OF VIRGINIA) EMPLOYED BY THE MANUFACTURER CERTIFYING THE FOLLOWING:

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3. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



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Philadelphia, PA 19124-2208
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A/E INFO

APPROVED

FOR COMMANDER NAVFAC
ACTIVITY

SATISFACTORY TO DATE

Designer: MJU Author: MJU Checker: JRC

PMOM

BRANCH MANAGER

CHIEF ENG/ ARCH

FIRE PROTECTION

NAVFACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON

MARINE CORPS BASE QUANTICO, VIRGINIA

QUANTICO, VA

REPLACE QUANTICO M/H SCHOOL

LANDSCAPE ARCHITECTURAL DETAILS

DEPARTMENT OF THE NAVY

DdGEA

NAVFAC DRAWING NO.

13090873

SHEET 119 OF 789

L508

SCALE: AS NOTED

PROJECT NO.: P-021

CONSTR. CONTR. NO.

W91236-15-C-0023

NAVFAC DRAWING NO.

13090873

SHEET 119 OF 789

L508

DRAWN BY: JRC

CHECKED BY: JRC

DATE: 10/13/16

REVISION: 1

REVISION: 1

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REVISION: 1

REVISION: 1

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D

- C

TYPICAL GUARDRAIL CONSTRUCTION CONSISTS OF:
 -3.116" x 2.8125" x .093" ANODIZED ALUMINUM
 HORIZONTAL RAIL CHANNELS,
 -2 7/8" Ø ALUMINUM VERTICAL POSTS,
 -CHAIN LINK FENCE FABRIC (SEE SPECS.)

8' PRESS BOX
SEE PRESS BOX DRAWINGS

— REAR GUARDRAIL WITH TYPICAL
GUARDRAIL CONSTRUCTION.
NOTE 3 HORIZONTAL RAILS.

ENTRY LANDING PROTECTED BY
42" HIGH GUARDRAIL.
NOTE 2 HORIZONTAL RAILS.

PRESSBOX FFE
EL. 112'-5"

TOP OF PLATFORM
EL. 112'-0"

-2x10 FOOTBOARDS
-2x12 FOOTBOARDS
-2x10 FOOTBOARDS

TOP OF WALKWAY
FL. 103'-4"

TOP OF FINISH GRADE
EL. 100'-0" (ARBITRARY EL.)

CONCRETE PAD

MILL FINISHED ALUMINUM FRAMING STRUCTURE (TYPICAL)
CONSISTING OF:
-3.116 x2 13/16" x .093 HORIZONTAL CHANNELS,
-2 7/8" VERTICAL TUBES,
-2 1/4" x 7/8" DIAGONAL BRACING,

SECURE FRAMES TO CONCRETE PAD WITH
1/2" x 3 3/4" WEDGE ANCHORS (2-PER
FRAME)

— CROSS-BRACING BETWEEN
FRAMES AS REQUIRED.

CONCRETE TURN-DOWNS TO FROST PROTECTION DEPTH AT PERIMETER OF PRESSBOX FOUNDATIONS.

B

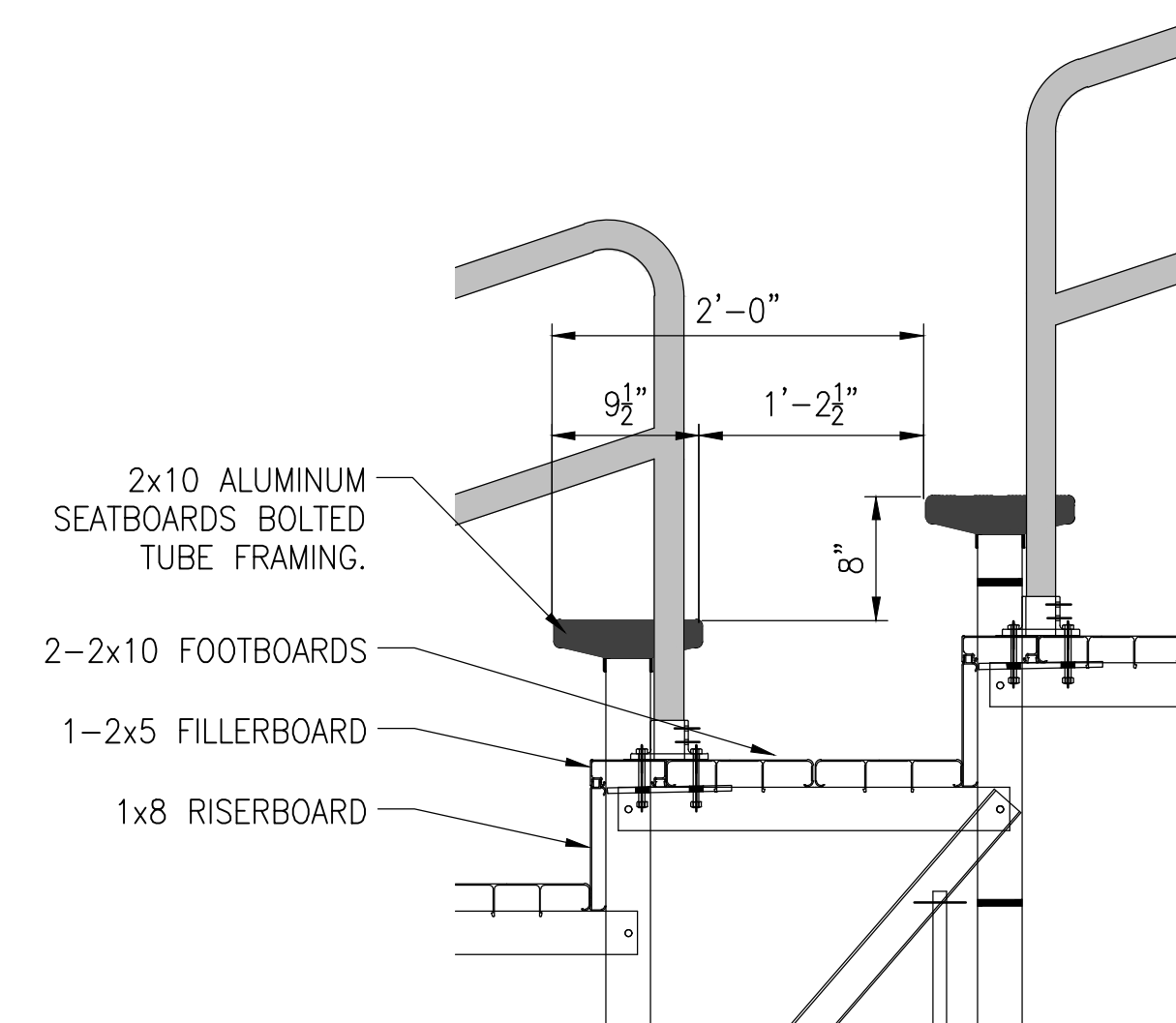
A

1

1509

SCALE: 1/2"=1'-0'

5

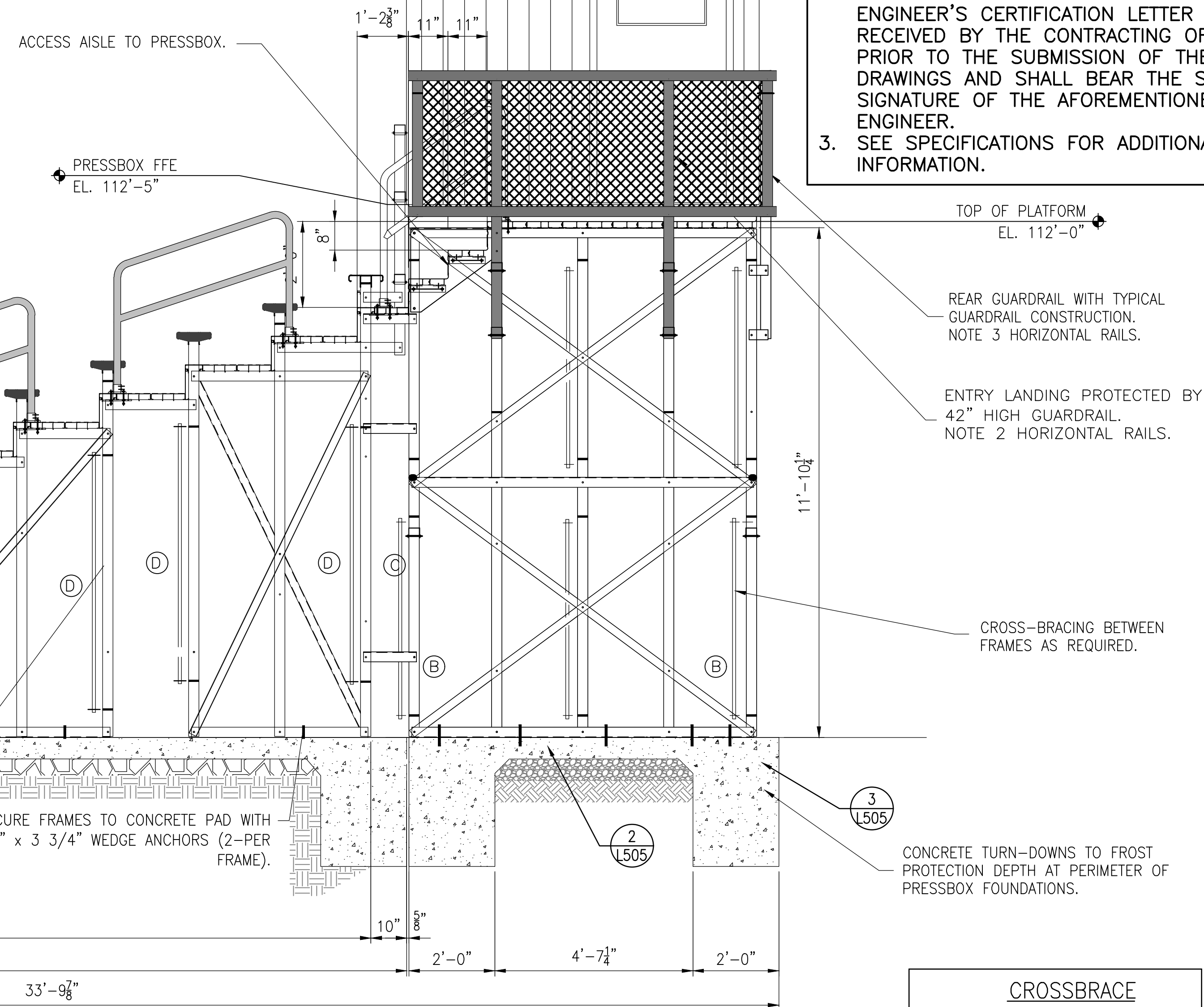


1
L510

DETAIL THRU SEATING

SCALE: NOT TO SCALE

8' PRESSBOX
SEE SHEETS L512, L513
AND L515



SECTION THROUGH AISLE AT PRESSBOX LANDING

3 L510 GRANDSTAND SECTION SCALE: 1/2" = 1'-0"

1. THE AFOREMENTIONED ENGINEER IS FULLY EXPERIENCED IN THE DESIGN OF BLEACHERS AND PRESS BOXES.
2. ALL SHOP DRAWINGS (INCLUDING ALL SUPPORTS, CONNECTIONS AND COMPONENTS) SHALL BE PREPARED UNDER THE DIRECTION OF THE AFOREMENTIONED ENGINEER, IN COMPLIANCE WITH THE CONTRACT DOCUMENT REQUIREMENTS AND APPLICABLE BUILDING CODES. HIS/HER SEAL AND SIGNATURE SHALL APPEAR ON ALL SHOP DRAWINGS. THE AFOREMENTIONED SHOP DRAWINGS SHALL INCLUDE SUFFICIENT INFORMATION TO ENABLE THE CONTRACTING OFFICER TO CONFIRM THAT DESIGN LOADS, SUPPORT POINTS AND TIE BACKS ARE IN COMPLIANCE WITH THE DESIGN CRITERIA. THIS ENGINEER'S CERTIFICATION LETTER MUST BE RECEIVED BY THE CONTRACTING OFFICER PRIOR TO THE SUBMISSION OF THE SHOP DRAWINGS AND SHALL BEAR THE SEAL AND SIGNATURE OF THE AFOREMENTIONED ENGINEER.
3. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

RTA SUBMISSION - 10/13/2016

RAWFORM REVISION: 10 MARCH 2009

D

C

B

A

CROSSBRACE	
A. CROSSBRACE	77 1/8"
B. CROSSBRACE	81 5/8"
C. CROSSBRACE	88"
D. CROSSBRACE	103 1/8"
E. CROSSBRACE	111 1/8"

TYPICAL GUARDRAIL CONSTRUCTION CONSISTS OF:
-3.116" x 2.8125" x .093" ANODIZED ALUMINUM
HORIZONTAL RAIL CHANNELS,
-2 7/8" Ø ALUMINUM VERTICAL POSTS,
-CHAIN LINK FENCE FABRIC (SEE SPECS.)

1x6 FINISHED ALUMINUM CONTINUOUS RISER ADDED AT LAST ROW.
DISCONTINUE RISER AT ACCESS TO PRESSBOX LANDING.

1x8 FINISHED ALUMINUM CONTINUOUS RISER TYPICAL.

24" ALUMINUM MILL FINISHED TREADS CONSISTING OF:
2-2x10 CONTINUOUS FOOTBOARDS
1-2x5 FILLERBOARD (CONTINUOUS IF CLOSED DECK;
6'-5" LONG AT AISLES ONLY IF SEMI-CLOSED).

2x10 (NOMINAL) FINISHED ALUMINUM
SEATBOARDS.

42" HIGH FRONT GUARDRAIL WITH TYPICAL
GUARDRAIL CONSTRUCTION.
NOTE 2 HORIZONTAL RAILS.

ROOFTOP FILMING PLATFORM WITH 42" HIGH
CHAIN LINK FENCE PERIMETER GUARDRAIL.
-1 5/8" Ø ALUMINUM PIPE RAIL SUPPORTED
BY 3"x2" ALUMINUM TUBES.

8' PRESS BOX
SEE SHEETS L512, L513
AND L514

TOP OF WALKWAY
EL. 103'-4"

TOP OF FINISH GRADE
EL. 100'-0" (ARBITRARY EL.)

CONCRETE PAD
(3)
L505

MILL FINISHED ALUMINUM FRAMING STRUCTURE (TYPICAL)
CONSISTING OF:
-3.116 x2 13/16" x .093 HORIZONTAL CHANNELS,
-2 7/8" Ø VERTICAL TUBES,
-2 1/4" x 7/8" DIAGONAL BRACING,

SECURE FRAMES TO CONCRETE PAD WITH
1/2" x 3 3/4" WEDGE ANCHORS (2-PER
FRAME).

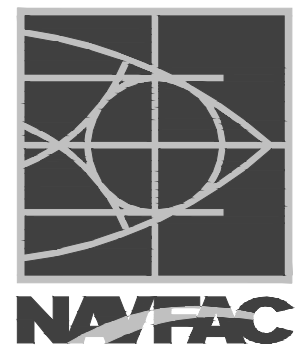
CROSS-BRACING BETWEEN
FRAMES AS REQUIRED.

CONCRETE TURN-DOWNS TO FROST
PROTECTION DEPTH AT PERIMETER OF
PRESSBOX FOUNDATIONS.

SECTION THROUGH PRESSBOX AND WHEELCHAIR LOCATIONS

NOTE: THIS SHEET IS STRICTLY FOR INFORMATION ONLY ON THE BLEACHER AND PRESS BOX SYSTEM FOR OVERALL SIZE, SEATING CAPACITY AND ALL OTHER GENERAL QUANTITIES REQUIRED TO BID THE BLEACHER AND PRESS BOX. SUBMIT A LETTER OF CERTIFICATION PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER (REGISTERED IN THE COMMONWEALTH OF VIRGINIA) EMPLOYED BY THE MANUFACTURER CERTIFYING THE FOLLOWING:

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3. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



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A/E INFO

APPROVED

FOR COMMANDER NAVFAC
ACTIVITY

SATISFACTORY TO DATE

Designer: MJJ Author: MJJ Checker: JRC

PM/DM

BRANCH MANAGER

CHIEF ENG/ ARCH

FIRE PROTECTION

NAVFACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON

MARINE CORPS BASE QUANTICO, VIRGINIA

QUANTICO, VA

REPLACE QUANTICO M/H SCHOOL

LANDSCAPE ARCHITECTURAL DETAILS

DEPARTMENT OF THE NAVY

NAVFAC

QUANTICO

REPLACE QUANTICO M/H SCHOOL

LANDSCAPE ARCHITECTURAL DETAILS

SCALE: AS NOTED

PROJECT NO.: P-021

CONSTR. CONTR. NO. W91236-15-C-0023

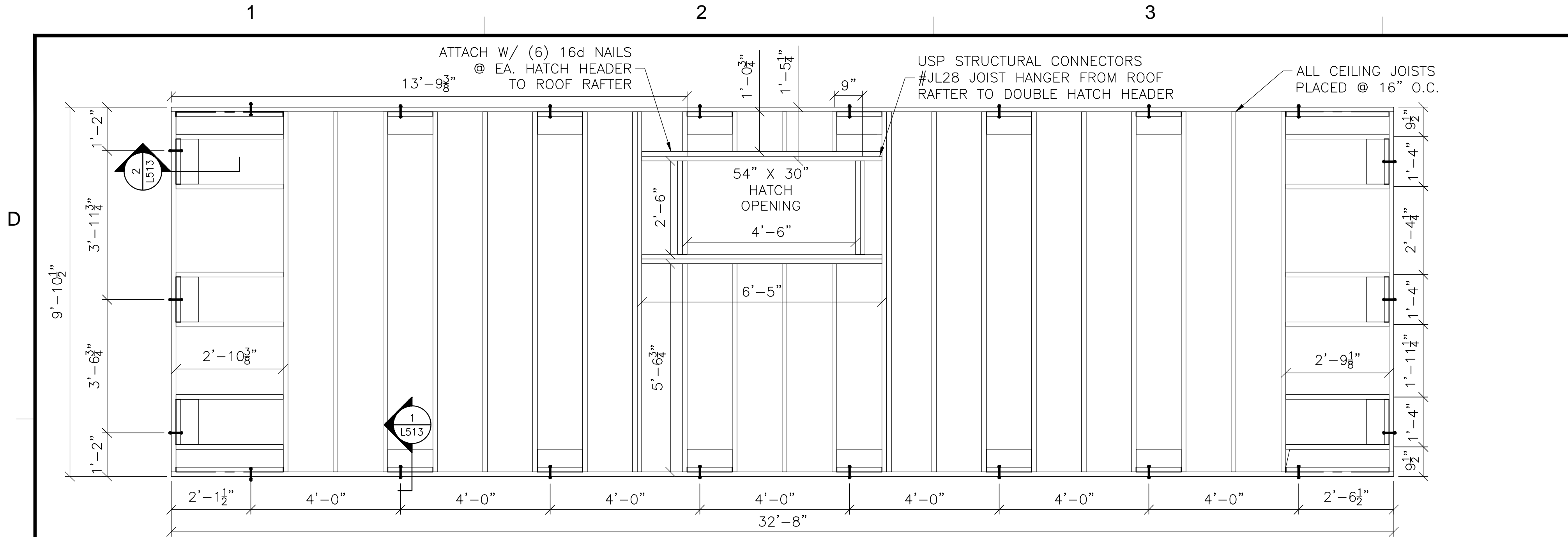
NAVFAC DRAWING NO. 13090876

SHEET 122 OF 789

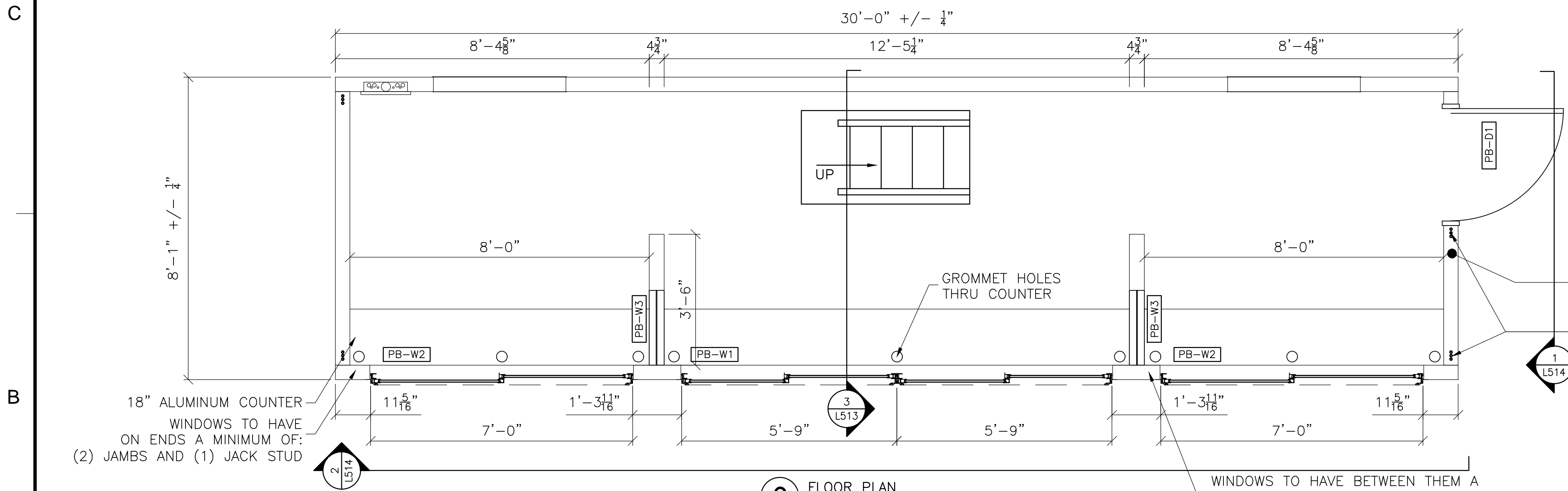
L511

1 GRANDSTAND AND PRESS BOX SECTION

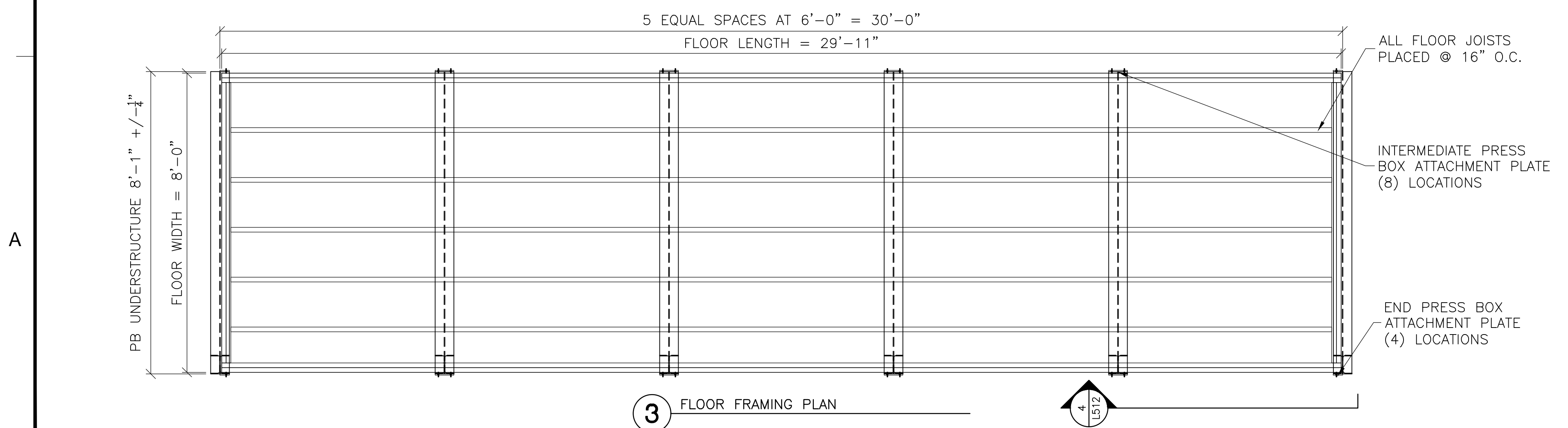
L511 SCALE: 1/2"=1'-0"



1 ROOF FRAMING PLAN



2 FLOOR PLAN



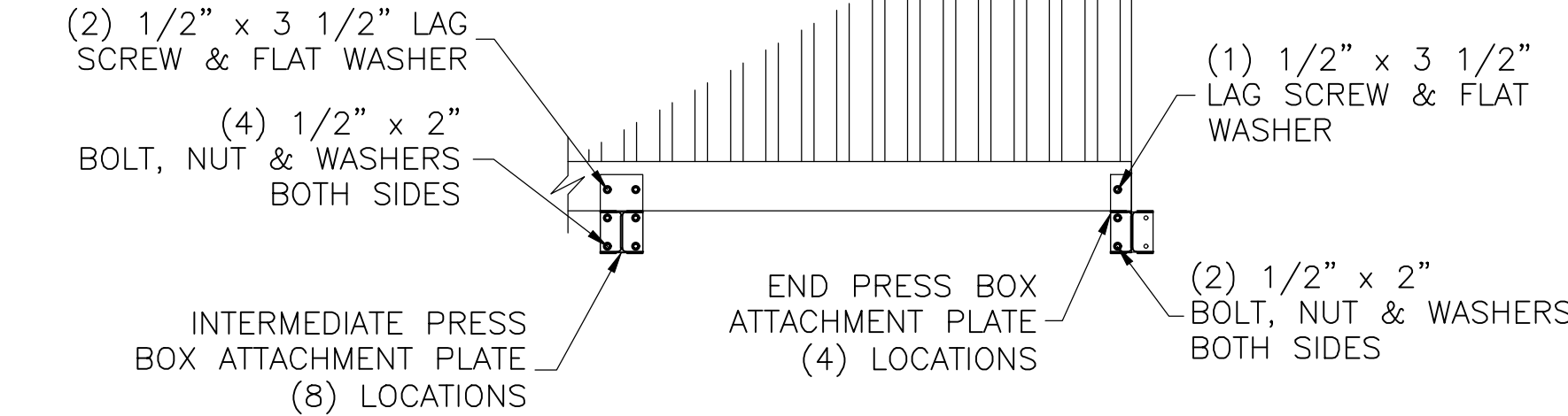
3 FLOOR FRAMING PLAN

NOTE: THIS SHEET IS STRICTLY FOR INFORMATION ONLY ON THE BLEACHER AND PRESS BOX SYSTEM FOR OVERALL SIZE, SEATING CAPACITY AND ALL OTHER GENERAL QUANTITIES REQUIRED TO BID THE BLEACHER AND PRESS BOX. SUBMIT A LETTER OF CERTIFICATION PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER (REGISTERED IN THE COMMONWEALTH OF VIRGINIA) EMPLOYED BY THE MANUFACTURER CERTIFYING THE FOLLOWING:

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3. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

SHEARWALL SYSTEM

- 1/2" CDX PLYWOOD WALL SHEATHING GLUED WITH CONSTRUCTION ADHESIVE AND STAPLED WITH MINIMUM 16 GA. X 7/16" CROWN STAPLES WITH MINIMUM 1" PENETRATION, 6" O.C. FIELD AND 3" O.C. EDGES (SUPPORTED).
- (3) 3/8"x7" LAG BOLT EA. CORNER OF SHEARWALL FLOOR RIM JOISTS. TYP. BOTH ENDS.



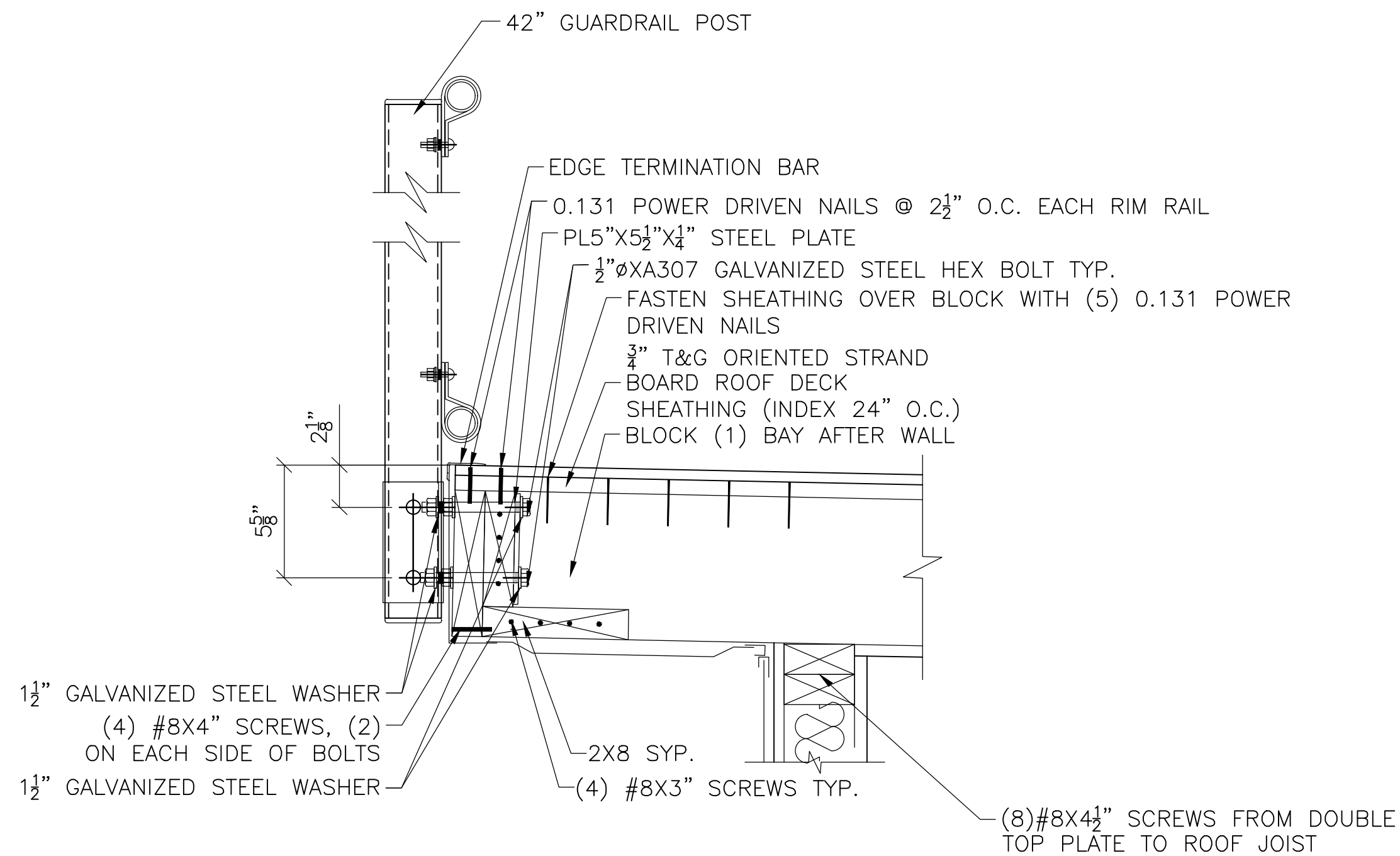
4 PRESS BOX ATTACHMENT DETAIL

NOTES:
1. SEE MECHANICAL DRAWINGS FOR ELECTRICAL, COMMUNICATION AND HVAC INFORMATION FOR PRESS BOX.

1
L512
GRANDSTAND PRESS BOX
SCALE: 1/2"=1'-0"

DATE	10/13/16
DESCRIPTION	REPLACE QUANTICO M/H SCHOOL
SYMBOL	LANDSCAPE ARCHITECTURAL DETAILS
EWING COLE Federal Reserve Bank Building 100 North 6th Street Philadelphia, PA 19106 Tel: 215.502.2020 Fax: 215.514.9163	
Calzone & Kaupp, Inc. Landscape Architecture 1118 East Columbia Avenue Philadelphia, PA 19124-2028 Phone: 215.281.2020 Fax: 215.281.2020 www.calzonekaupp.com A/E INFO	
APPROVED	
FOR COMMANDER NAVAC	
ACTIVITY	
SATISFACTORY TO	DATE
Designer MJU	Author MJU
Checker JRC	
PMOM	
BRANCH MANAGER	
CHIEF ENG/ ARCH	
FIRE PROTECTION	
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON	
MARINE CORPS BASE QUANTICO, VIRGINIA	
QUANTICO, VA	
REPLACE QUANTICO M/H SCHOOL	
LANDSCAPE ARCHITECTURAL DETAILS	
SCALE: AS NOTED	
PROJECT NO.: P-021	
CONSTR. CONTR. NO.: W91236-15-C-0023	
NAVAC DRAWING NO.: 13090877	
SHEET 123 OF 789	
L512	

D



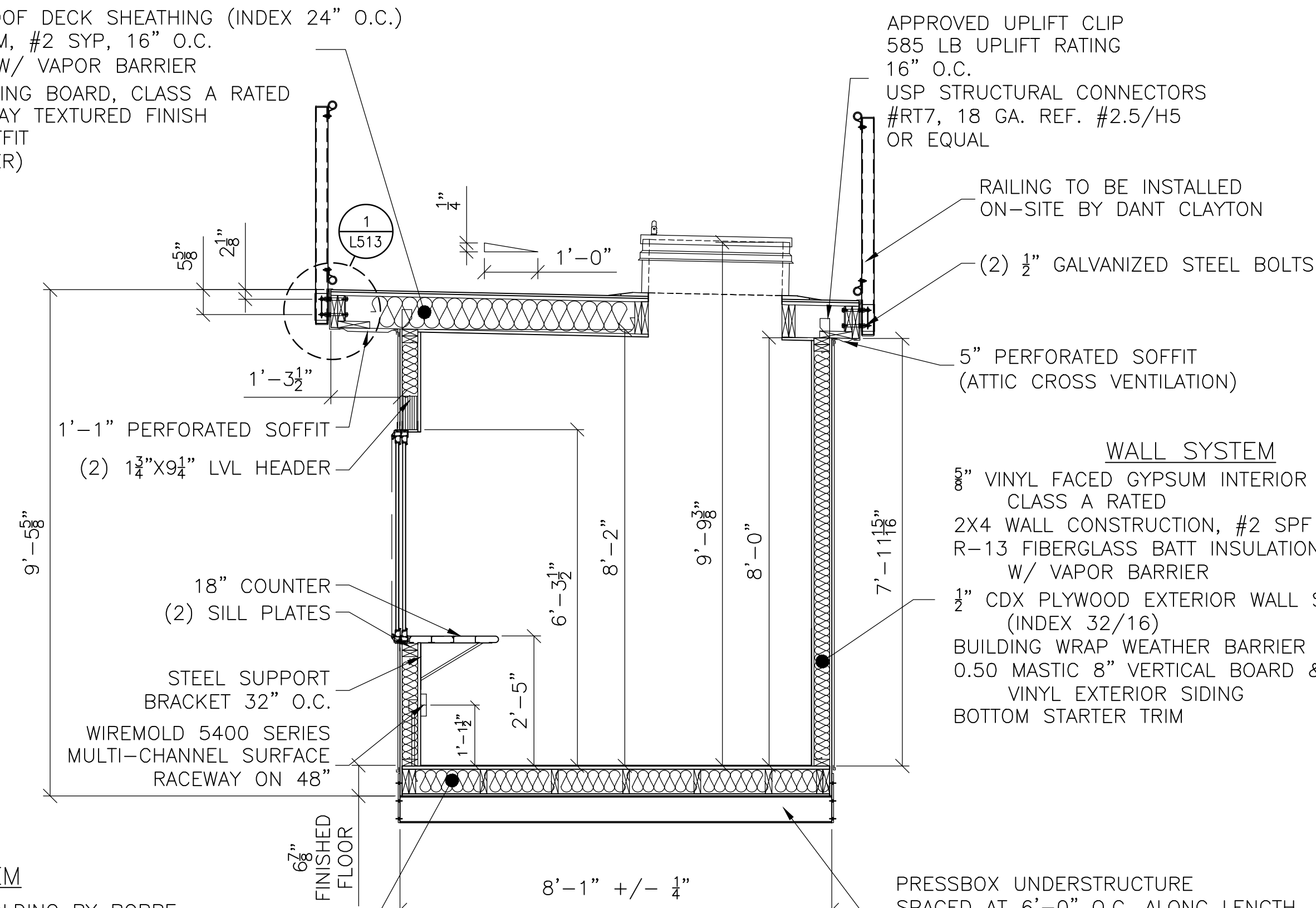
1 GUARDRAL CONNECTION DETAIL
@ FRONT OF PRESS BOX

C

ROOFING SYSTEM

DECKING .060 POLYESTER REINFORCED SKID AND SPIKE
RESISTANT PVC MEMBRANE FULLY ADHERED
3/4" T&G ORIENTED STRAND BOARD ROOF DECK SHEATHING (INDEX 24" O.C.)
2X8 TRANSVERSE ROOF JOIST SYSTEM, #2 SYP, 16" O.C.
R-19 FIBERGLASS BATT INSULATION W/ VAPOR BARRIER
5/8" TYPE-X FIRE RATED GYPSUM CEILING BOARD, CLASS A RATED
-TAPED AND BEDDED WITH SPRAY TEXTURED FINISH
MASTIC FASCIA AND PERFORATED SOFFIT
(CONTINUOUS AROUND PERIMETER)

B

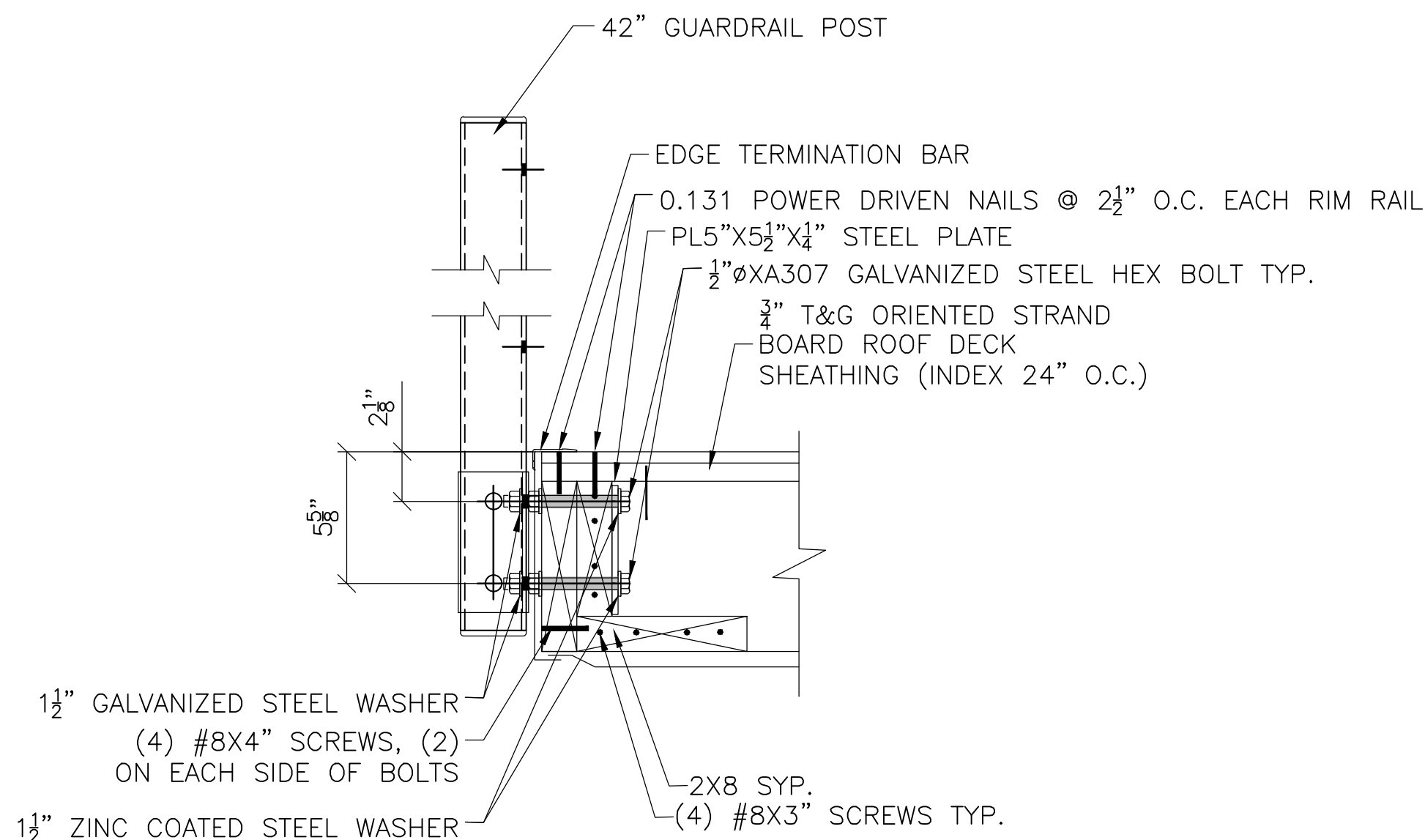


3 SECTION THRU PRESSBOX

FLOORING SYSTEM

4" THERMOPLASTIC RUBBER BASE MOLDING BY ROPPE
1/4" ARMSTRONG VINYL COMPOSITION TILE FLOORING-CLASS A RATED
3/4" STURDIFLOOR, UNDERLAYMENT GRADE, T&G FIR PLYWOOD FLOOR
DECKING (INDEX 24" O.C.)
R-19 FIBERGLASS BATT INSULATION W/ VAPOR BARRIER
2X6 LONGITUDINAL FLOOR CONSTRUCTION, #2 SYP, 16" O.C.
(SPLICED 16'-0" O.C. AND STAGGERED)
1/2" PLYWOOD UNDERBELLY (INDEX 32/16) W/
CONTINUOUS VENT 96" O.C. (MIN. 2)
(PAINTED INDUSTRIAL GRADE ASPHALT BASED BLACK)

A



2 GUARDRAL CONNECTION DETAIL
@ SIDES OF PRESSBOX

APPROVED UPLIFT CLIP
585 LB UPLIFT RATING
16" O.C.
USP STRUCTURAL CONNECTORS
#RT7, 18 GA. REF. #2.5/H5
OR EQUAL

RAILING TO BE INSTALLED
ON-SITE BY DANT CLAYTON
(2) 1/2" GALVANIZED STEEL BOLTS

5" PERFORATED SOFFIT
(ATTIC CROSS VENTILATION)

WALL SYSTEM

8" VINYL FACED GYPSUM INTERIOR WALL PANELS
CLASS A RATED
2X4 WALL CONSTRUCTION, #2 SPF OR BETTER, 16" O.C.
R-13 FIBERGLASS BATT INSULATION
W/ VAPOR BARRIER
1/2" CDX PLYWOOD EXTERIOR WALL SHEATHING
(INDEX 32/16)
BUILDING WRAP WEATHER BARRIER
0.50 MASTIC 8" VERTICAL BOARD & BATTEN PREMIUM
VINYL EXTERIOR SIDING
BOTTOM STARTER TRIM

PRESSBOX UNDERSTRUCTURE
SPACED AT 6'-0" O.C. ALONG LENGTH
W/ ANCHORING BRACKETS AT ENDS.
PRE-WORK, NOT A PART OF PRESSBOX
CONSTRUCTION.

NOTE: THIS SHEET IS STRICTLY FOR INFORMATION ONLY ON THE BLEACHER AND PRESS BOX SYSTEM FOR OVERALL SIZE, SEATING CAPACITY AND ALL OTHER GENERAL QUANTITIES REQUIRED TO BID THE BLEACHER AND PRESS BOX. SUBMIT A LETTER OF CERTIFICATION PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER (REGISTERED IN THE COMMONWEALTH OF VIRGINIA) EMPLOYED BY THE MANUFACTURER CERTIFYING THE FOLLOWING:

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3. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

NOTES:
1. SEE MECHANICAL DRAWINGS FOR ELECTRICAL, COMMUNICATION AND HVAC INFORMATION FOR PRESS BOX.

1
L513
GRANDSTAND PRESS BOX
SCALE: 1/2"=1'-0"

DATE	10/13/16
DESCRIPTION	REPLACE QUANTICO M/H SCHOOL
SYN	LANDSCAPE ARCHITECTURAL DETAILS
EWING COLE Federal Reserve Bank Building 100 North 8th Street Philadelphia, PA 19106 Tel: 215.522.2222 Fax: 215.524.9163 www.ewingcole.com A/E INFO	
APPROVED FOR COMMANDER NAVFAC ACTIVITY SATISFACTORY TO DATE Designer: MJJ Author: MJJ Checker: JRC PMOM BRANCH MANAGER CHIEF ENG/ ARCH FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON D-DEFA MARINE CORPS BASE QUANTICO QUANTICO, VA REPLACE QUANTICO M/H SCHOOL LANDSCAPE ARCHITECTURAL DETAILS	
SCALE: AS NOTED PROJECT NO.: P-021 CONSTR. CONTR. NO.: W91236-15-C-0023 NAVFAC DRAWING NO.: 13090878 SHEET 124 OF 789 L513	

1

2

3

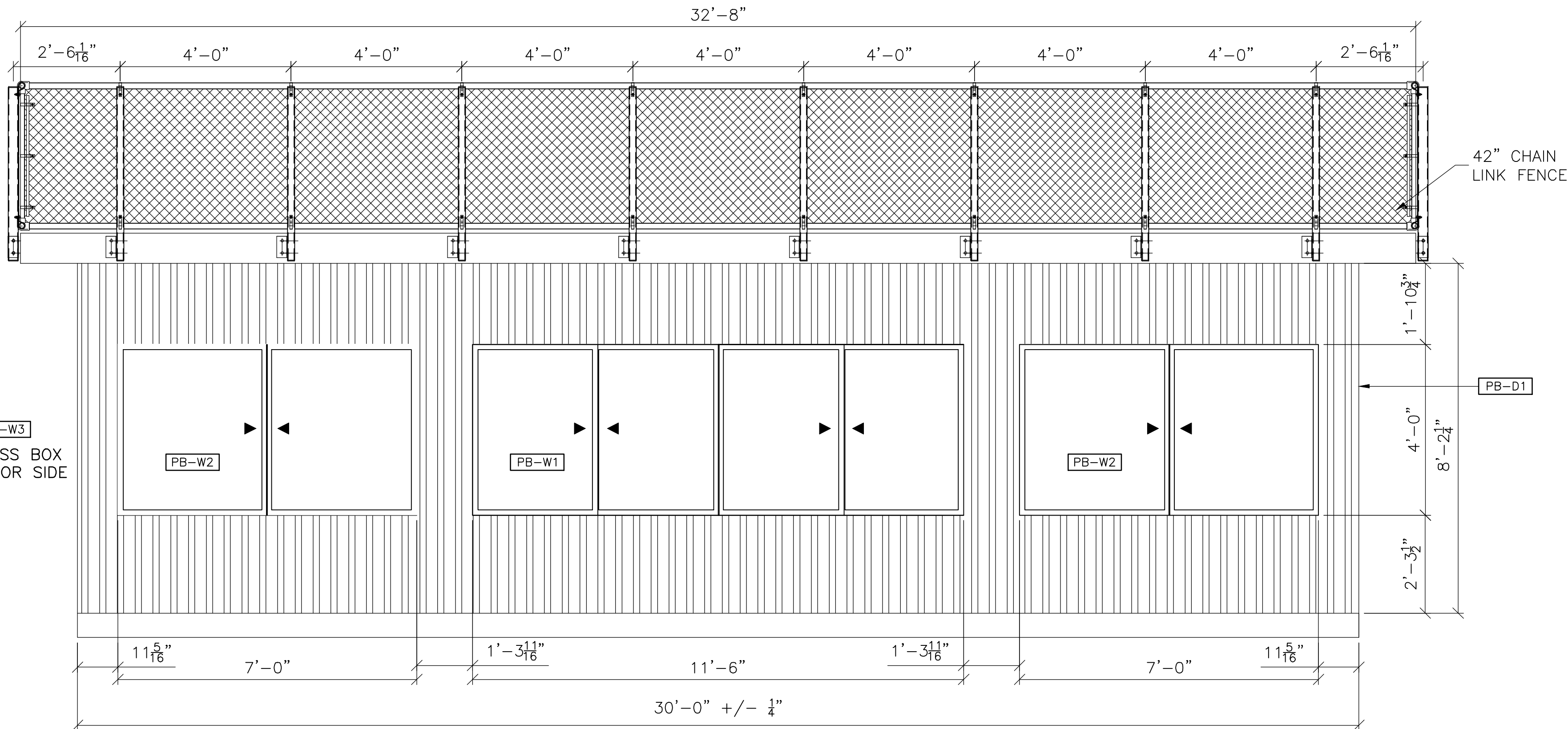
4

5

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3. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PB-W3
SIDE OF PRESS BOX
OPPOSITE DOOR SIDE



2 FRONT ELEVATION

DOOR SCHEDULE

DOOR						FRAME	
KEY	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	MATERIAL	FIRE RATING
PB-D1	3'-0"	6'-8"	0'-1 3/4"	3	STEEL	WOOD	

PB-D1 - INSULATED VINYL-FACED STEEL CLAD W/ WOOD JAMBS; 16" INSULATED/TEMPERED LITE, ALUMINUM THRESHOLD, VINYL WEATHER STOPS, STAINLESS STEEL HINGES AND HEAVY-DUTY RETENTION CHAINS. DOORS EQUIPPED WITH COMMERCIAL LEVER-HANDLED KEYED LOCKSETS.

*NOTE - DOOR INSTALLED PER MANUFACTURERS INSTALLATION DETAILS

WINDOW SCHEDULE

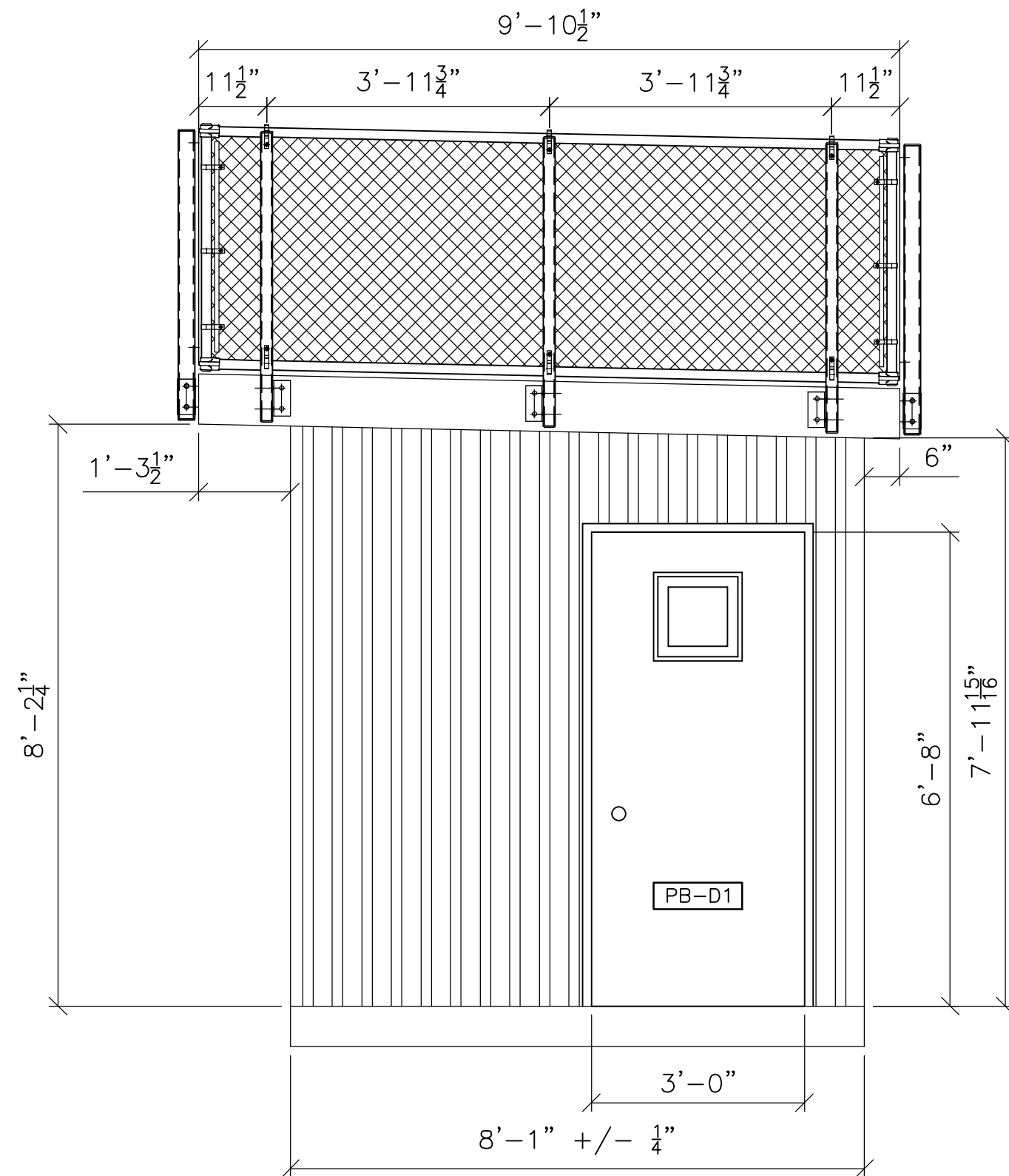
KEY	WIDTH	HEIGHT	TYPE	FRAME	U-FACTOR	SHGC
PB-W1	11'-6"	4'-0"	DOUBLE SLIDER	VINYL	.34	.27
PB-W2	7'-0"	4'-0"	DOUBLE SLIDER	VINYL	.34	.27
PB-W3	2'-0 3/8"	3'-6"	GLASS ONLY	N/A	N/A	N/A

PB-W1 - DOUBLE HORIZONTAL SLIDER WINDOWS W/ EXTRUDED VINYL FRAMES, AAMA LC-25 STRUCTURAL RATING, W/ 3/4" INSULATED LOW-E, ARGON FILLED TEMPERED GLASS W/ REMOVABLE INSECT SCREENS. NATURAL LIGHT ALLOWED = 46 SQ/FT, VENTABLE AREA = 23 SQ/FT

PB-W2 - DOUBLE HORIZONTAL SLIDER WINDOWS W/ EXTRUDED VINYL FRAMES, AAMA LC-25 STRUCTURAL RATING, W/ 3/4" INSULATED LOW-E, ARGON FILLED TEMPERED GLASS W/ REMOVABLE INSECT SCREENS. NATURAL LIGHT ALLOWED = 28 SQ/FT, VENTABLE AREA = 14 SQ/FT

PB-W3 - TEMPERED SAFETY GLASS WINDOW. INSERTED INTO PARTITION WALLS AT SAME HEIGHT AS HEADER.

*NOTE - GLAZING DESIGN PRESSURE = 22 PSF MINIMUM
WINDOWS INSTALLED PER MANUFACTURERS INSTALLATION DETAILS



1 SIDE ELEVATION

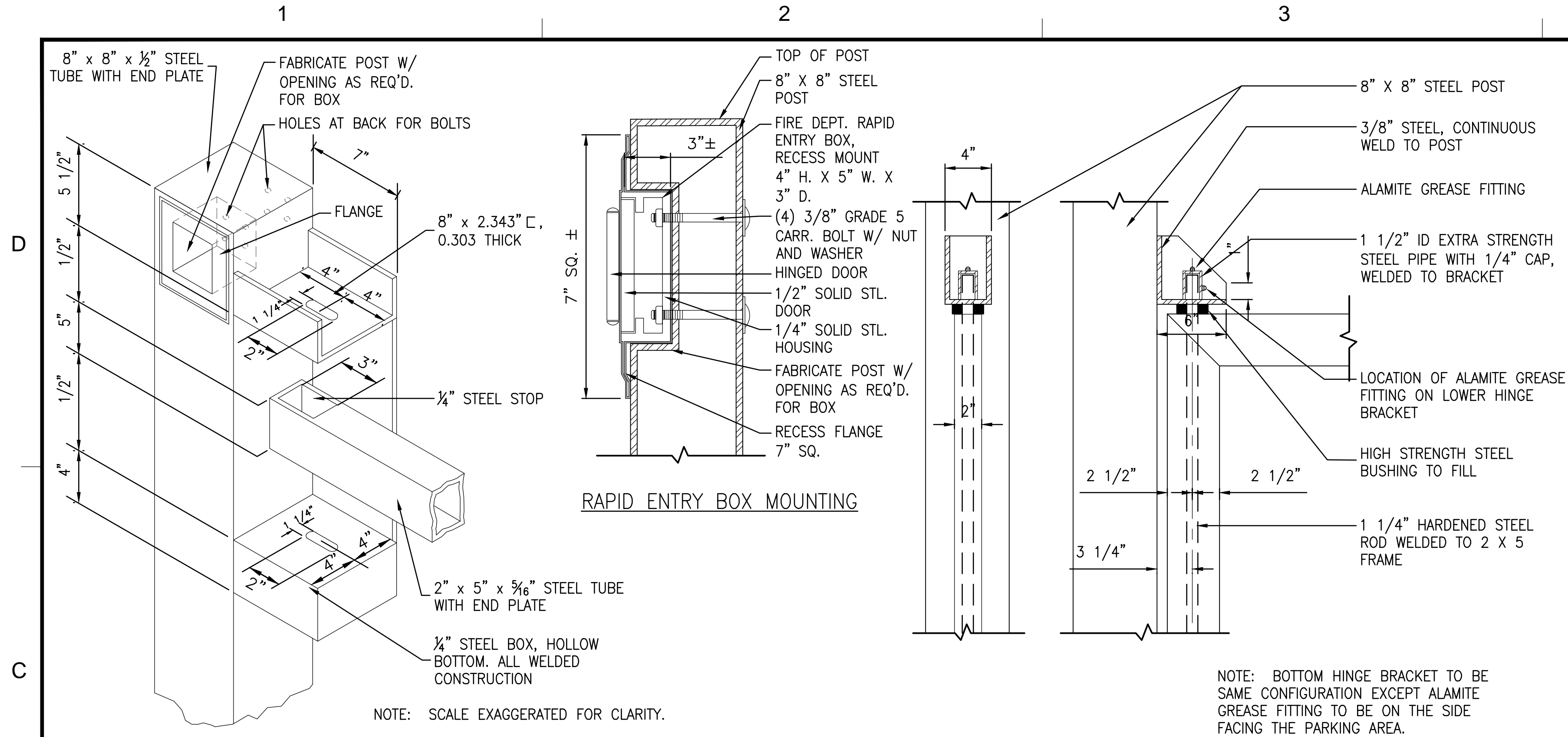
- NOTES:
1. SEE MECHANICAL DRAWINGS FOR ELECTRICAL, COMMUNICATION AND HVAC INFORMATION FOR PRESS BOX.

1
L514

GRANDSTAND PRESS BOX

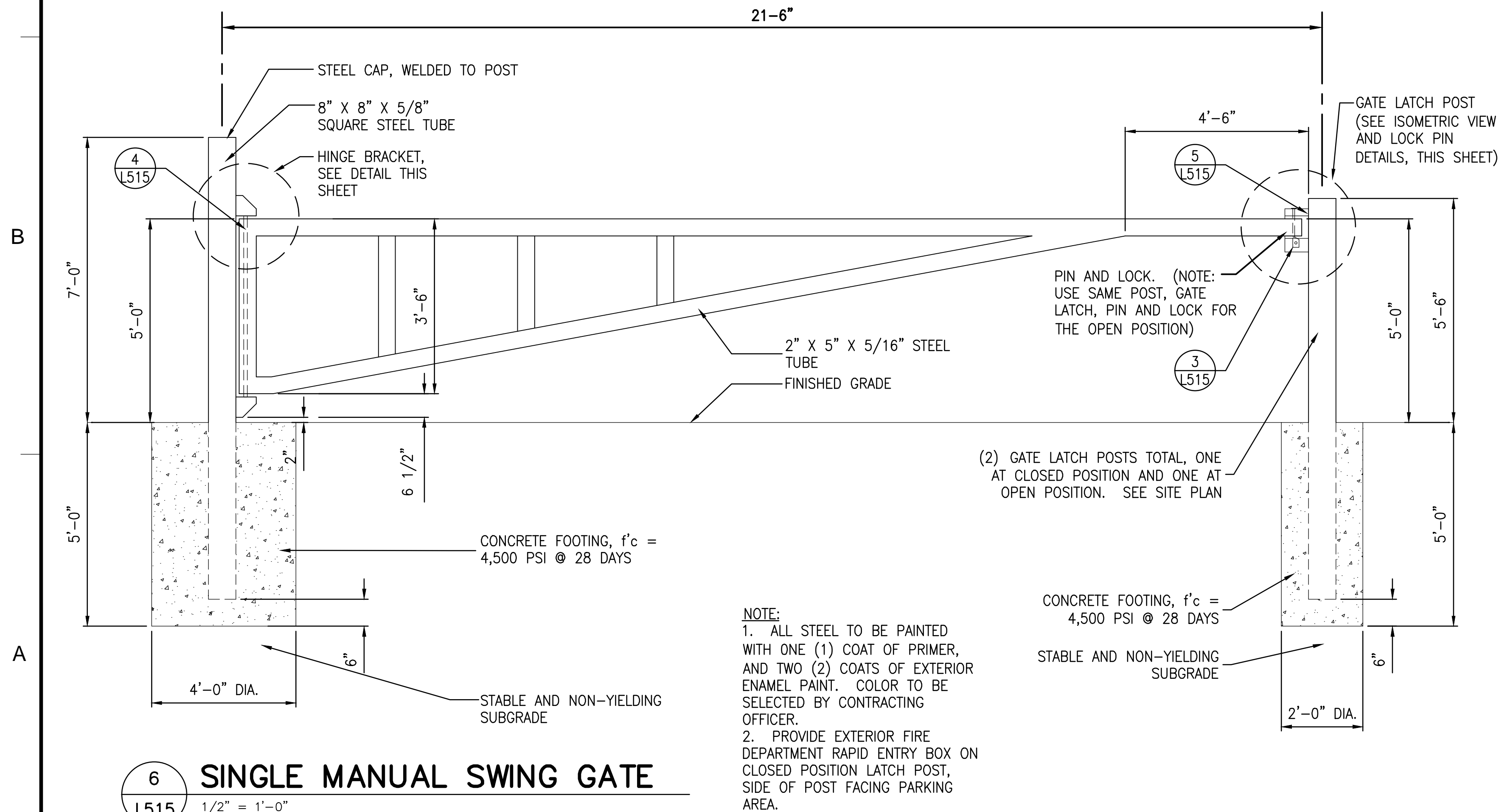
SCALE: 1/2"=1'-0"

DATE	10/13/16
DESCRIPTION	REPLACE QUANTICO M/H SCHOOL
SYN	LANDSCAPE ARCHITECTURAL DETAILS
APPR	
EWING COLE Federal Reserve Bank Building 100 North 6th Street Philadelphia, PA 19106 Tel: 215.502.2200 Fax: 215.519.5163	
Calrone & Kaupp, Inc. Landscape Architecture 1118 East Columbia Avenue Philadelphia, PA 19124-2208 Phone: 215.281.2800 Fax: 215.281.2801 www.calronekaupp.com A/E INFO	
APPROVED	
FOR COMMANDER NAVFAC ACTIVITY	
SATISFACTORY TO DATE	
Designer	MJJ
Author	MJJ
Checker	JRC
PMOM	
BRANCH MANAGER	
CHIEF ENG/ ARCH	
FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON D-DEFA MARINE CORPS BASE QUANTICO, VIRGINIA QUANTICO, VA	
REPLACE QUANTICO M/H SCHOOL	
LANDSCAPE ARCHITECTURAL DETAILS	
SCALE: AS NOTED	
PROJECT NO.: P-021	
CONSTR. CONTR. NO.: W91236-15-C-0023	
NAVFAC DRAWING NO.: 13090879	
SHEET 125 OF 789	
L514	

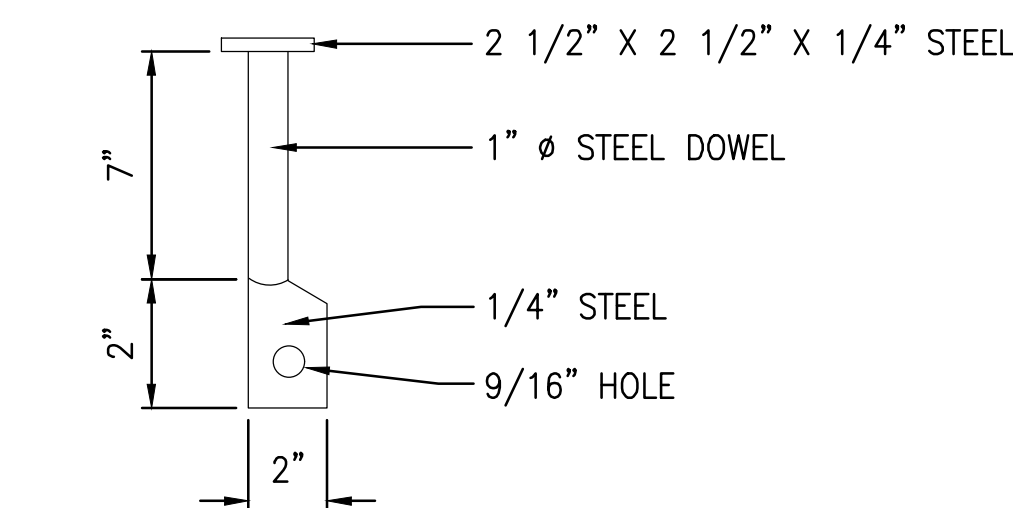
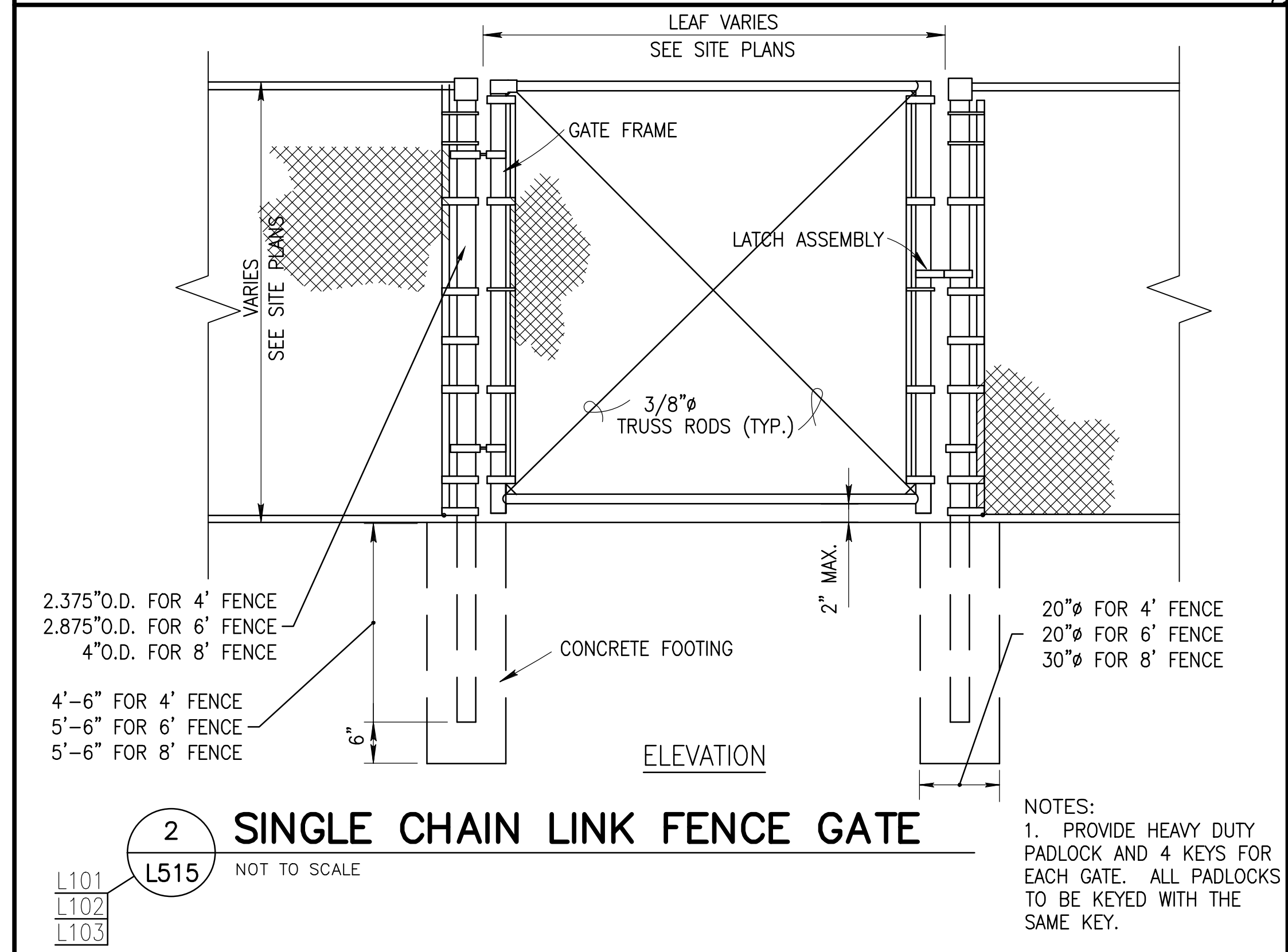
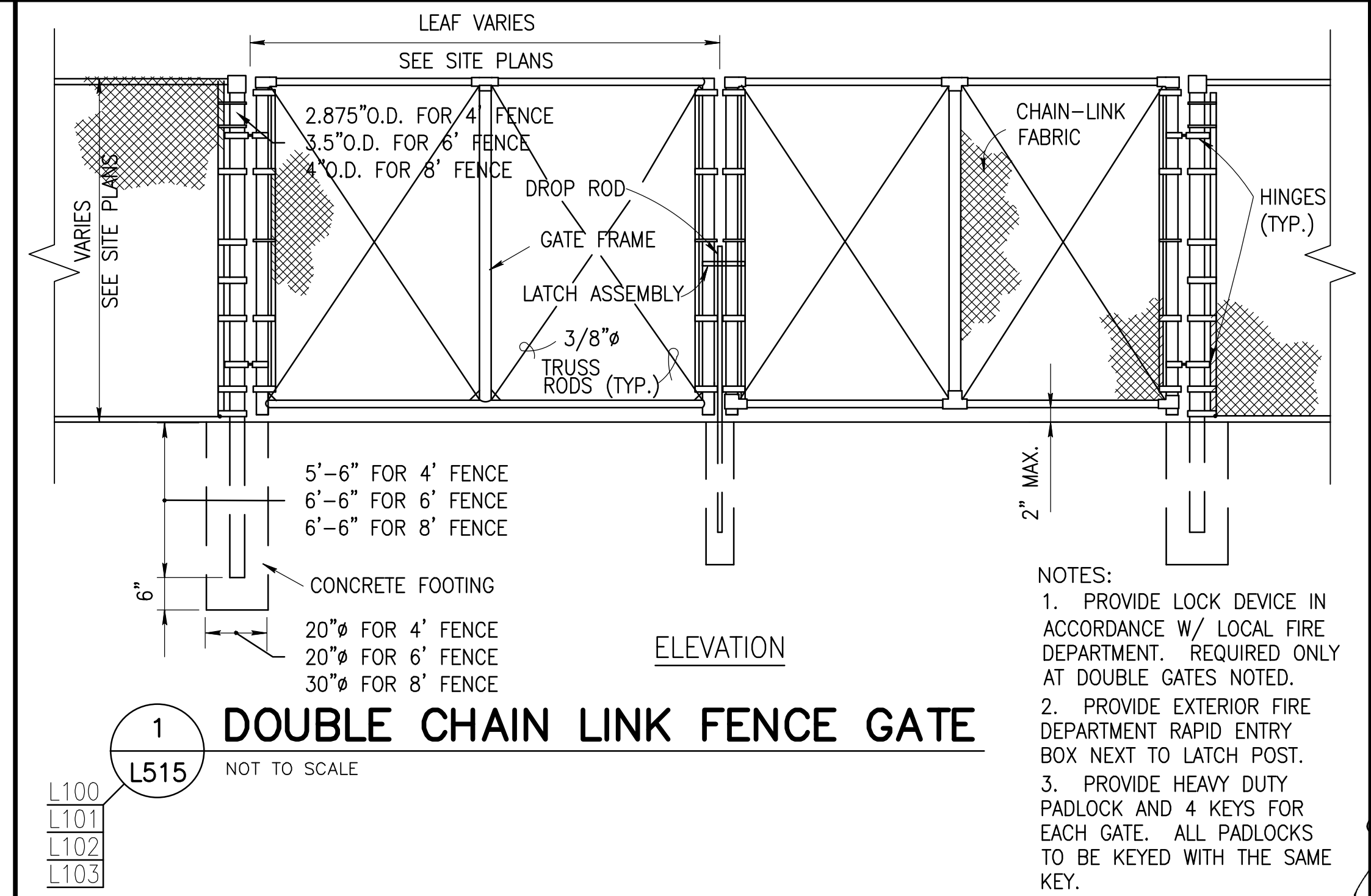


5 ISOMETRIC VIEW – GATE LATCH POST
L515 NOT TO SCALE

4 HINGE BRACKET
L515 NOT TO SCALE



6 SINGLE MANUAL SWING GATE
L515 1/2" = 1'-0"



3 LOCK PIN
L515 NOT TO SCALE

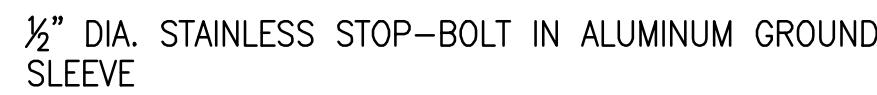
APPROVED	FOR COMMANDER NAVFAC	ACTIVITY	SATISFACTORY TO	DATE	
DESIGNER	MJJ	AUTHOR	MJJ	CHECKER	JRC
PROJECT NO.	P-021				
CONSTR. CONTR. NO.	W91236-15-C-0023				
NAVFAC DRAWING NO.	13090880				
SHEET	126	OF	789		
L515					

DEPARTMENT OF THE NAVY
NAVFACILITIES ENGINEERING COMMAND - WASHINGTON
DDEA
MARINE CORPS BASE QUANTICO
QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL
LANDSCAPE ARCHITECTURAL DETAILS

NAVAC
PROFESSIONAL ENGINEER
SEAL
EWING COLE
Federal Reserve Bank Building
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A/E INFO

SCALE: AS NOTED
PROJECT NO.: P-021
CONSTR. CONTR. NO.: W91236-15-C-0023
NAVFAC DRAWING NO.: 13090880
SHEET 126 OF 789
L515

RTA SUBMISSION - 10/13/2016



NOT TO SCALE

1. POLES ARE 8" DIAMETER 6061-T6 ALUMINUM, WALL THICKNESS OF 0.312".
2. POLE RESTS IN A 72" DEEP ALUMINUM GROUND SLEEVE THAT INCLUDES A STAINLESS STEEL STOP-BOLT TO PREVENT POLE SPIN.
3. NET IS SUPPORTED BY A VINYL COATED GALVANIZED STEEL 7x7 AIRCRAFT CABLE AT THE TOP AND BOTTOM. THE 4.0" SQUARE MESH NET HAS A BREAK STRENGTH OF 180 LBF AND IS KNOTLESS HIGH TENACITY POLYPROPYLENE (HTPP), EXTRA UV STABILIZERS
4. NET IS ANCHORED STRAIGHT DOWN TO THE BOTTOM OF THE POLES WITH STAINLESS EYEBOLTS, CABLE AND SPRING SNAPS.
5. ROPE PULLEY SYSTEM FOR RAISING AND LOWERING THE NET; ALL ATTACHING HARDWARE IS STAINLESS STEEL OR MARINE GRADE.
6. MAXIMUM DISTANCE BETWEEN POLES MAY NOT EXCEED 40 FEET.



3 WOOD GUIDE RAIL

NOT TO SCALE

SIDE ELEVATION

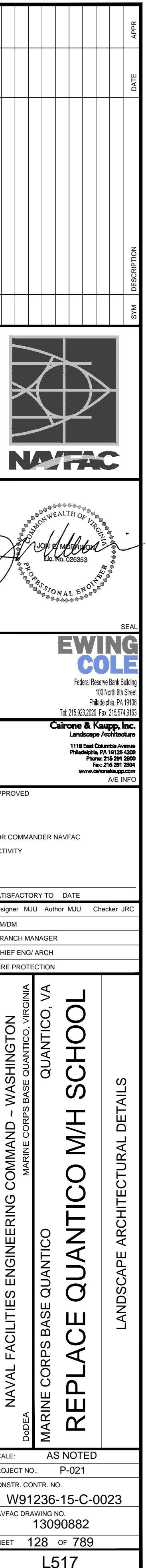
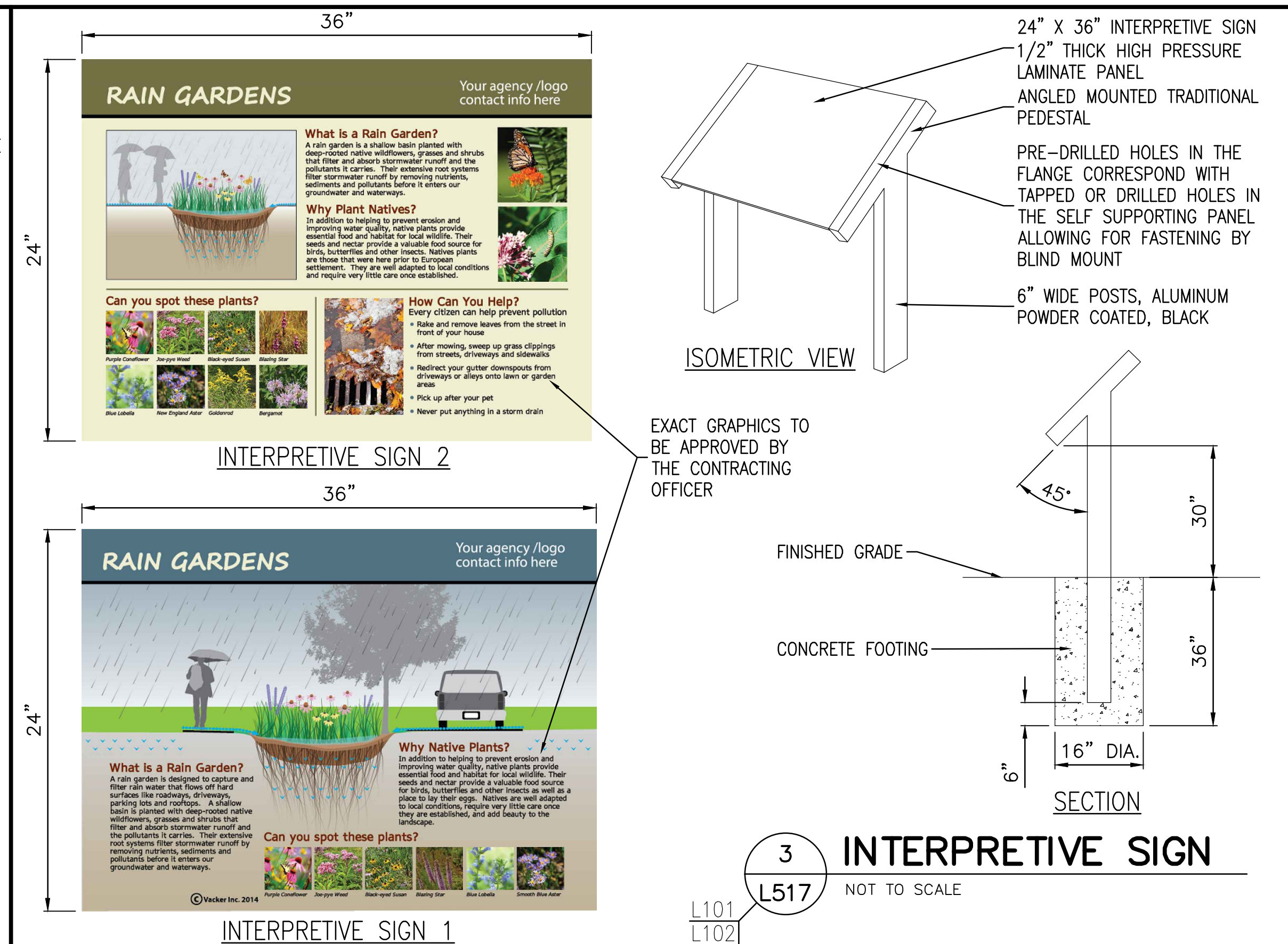
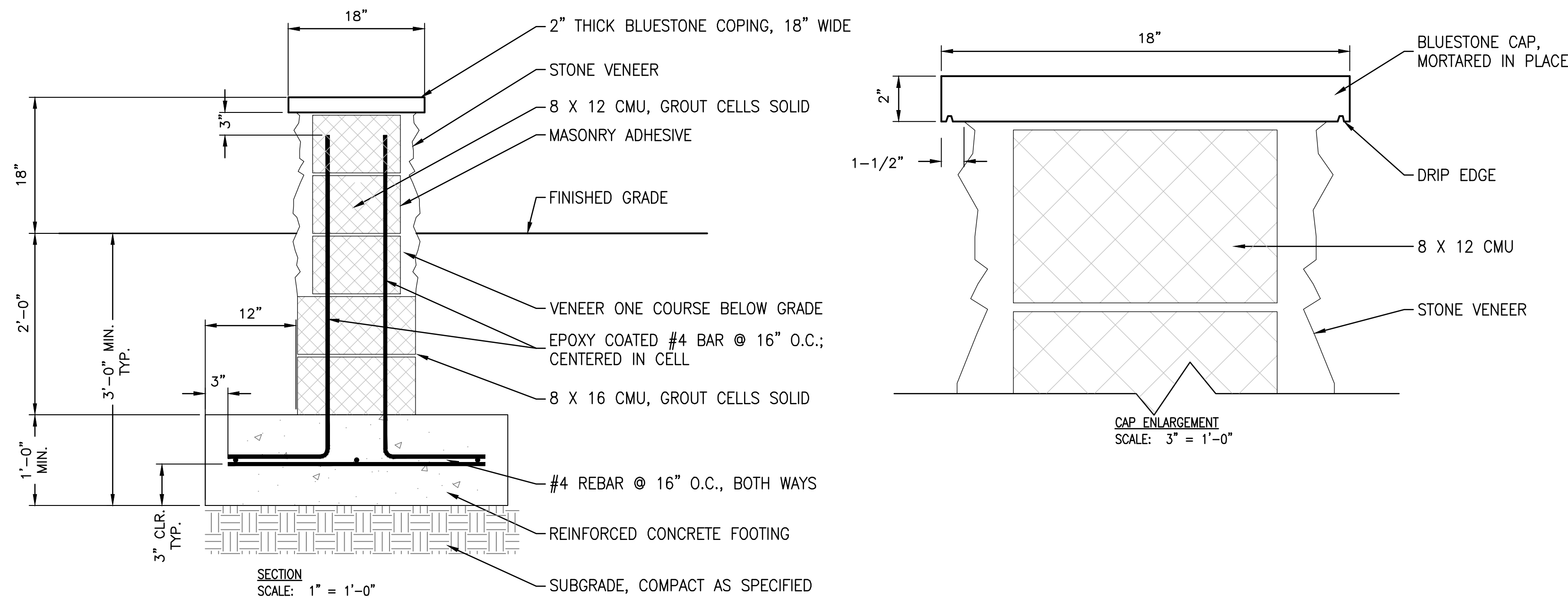
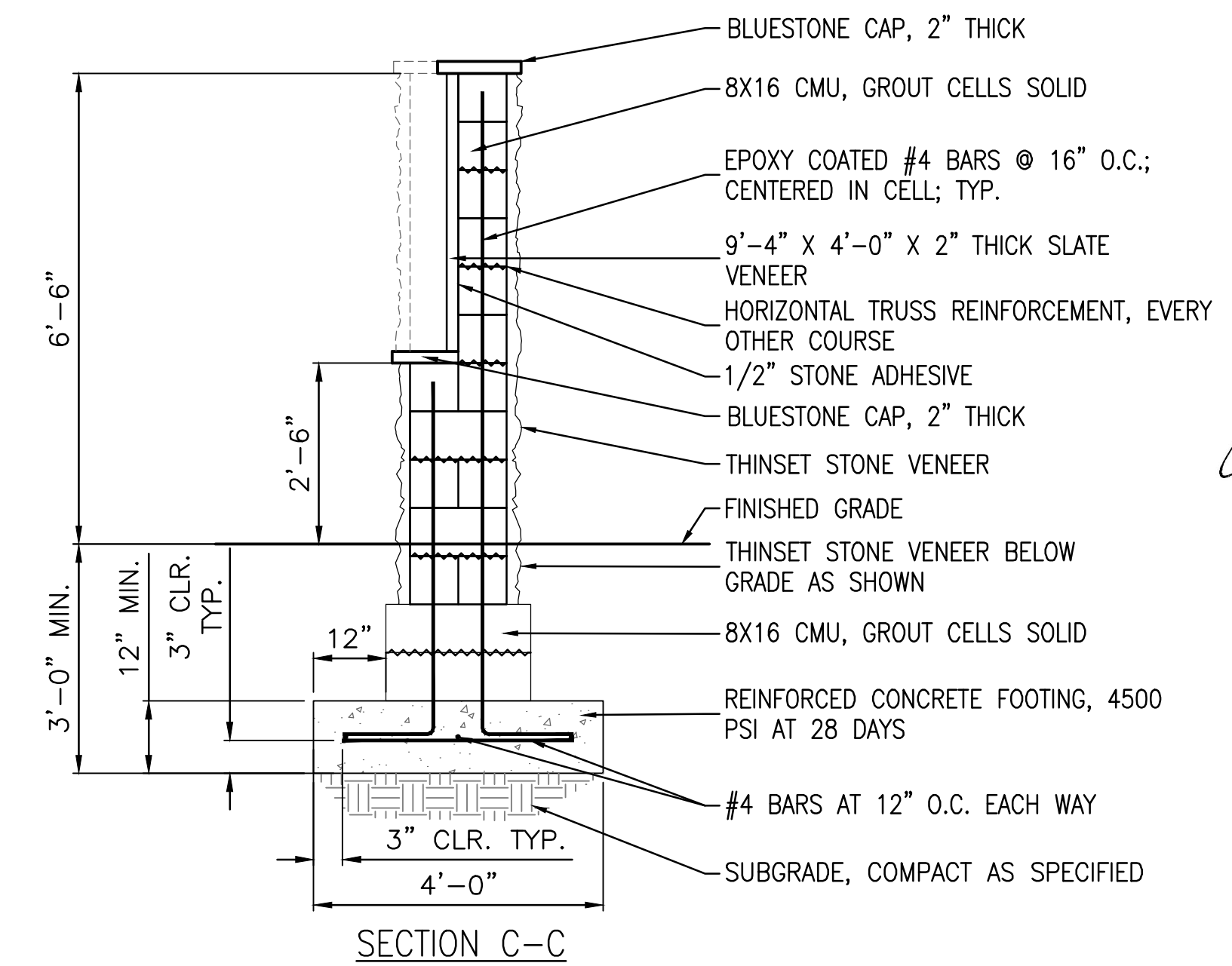
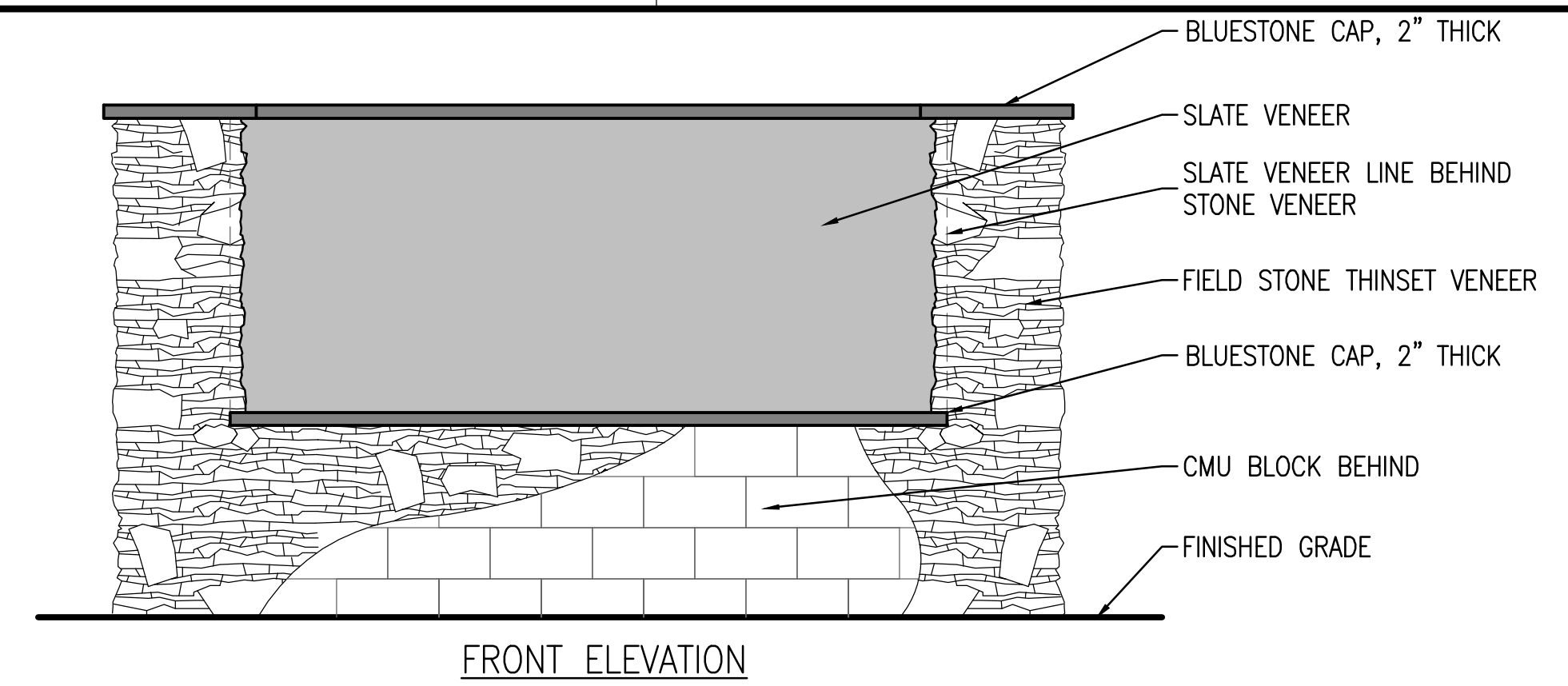
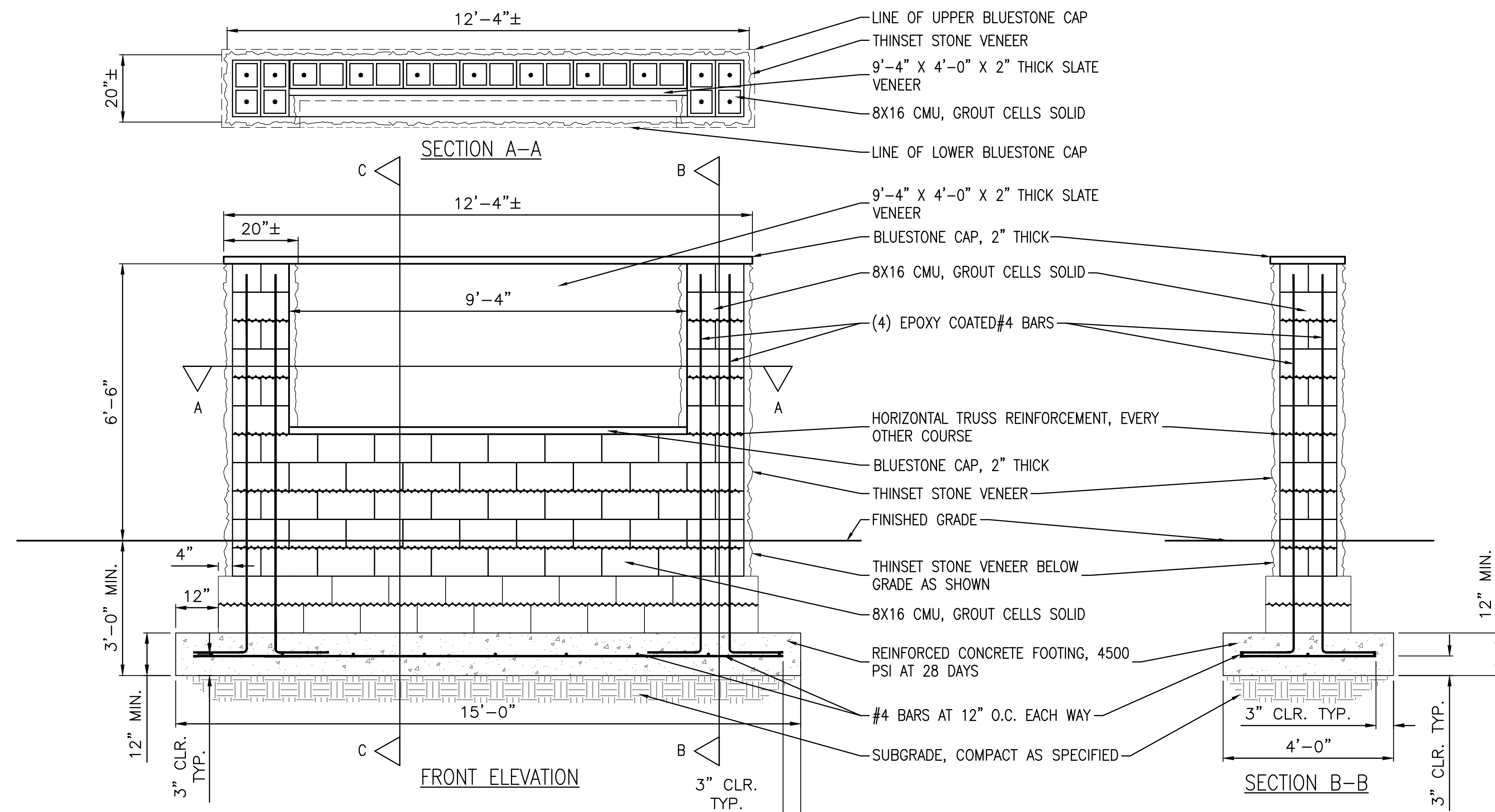
4 WOOD RAIL FENCE

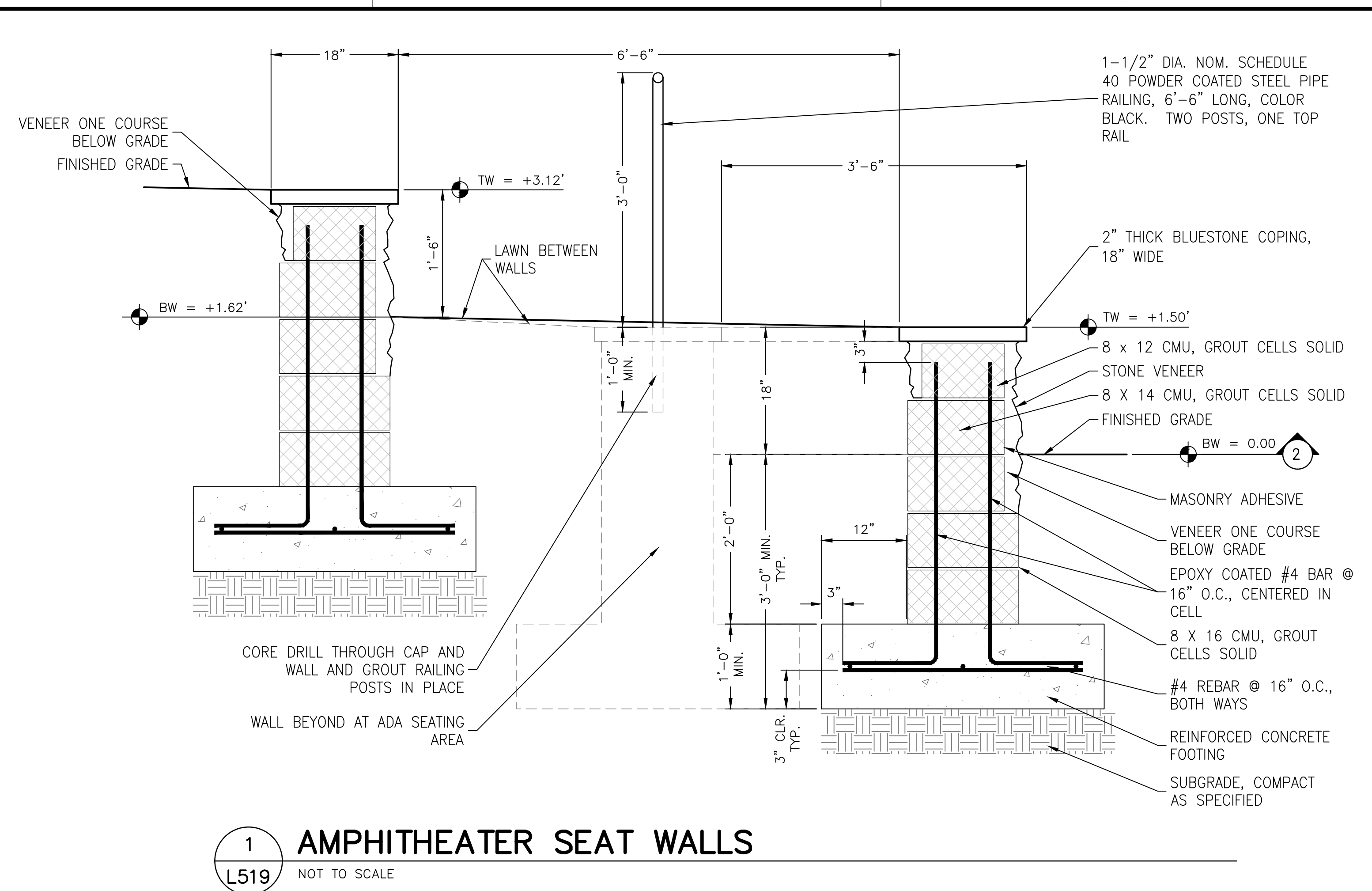
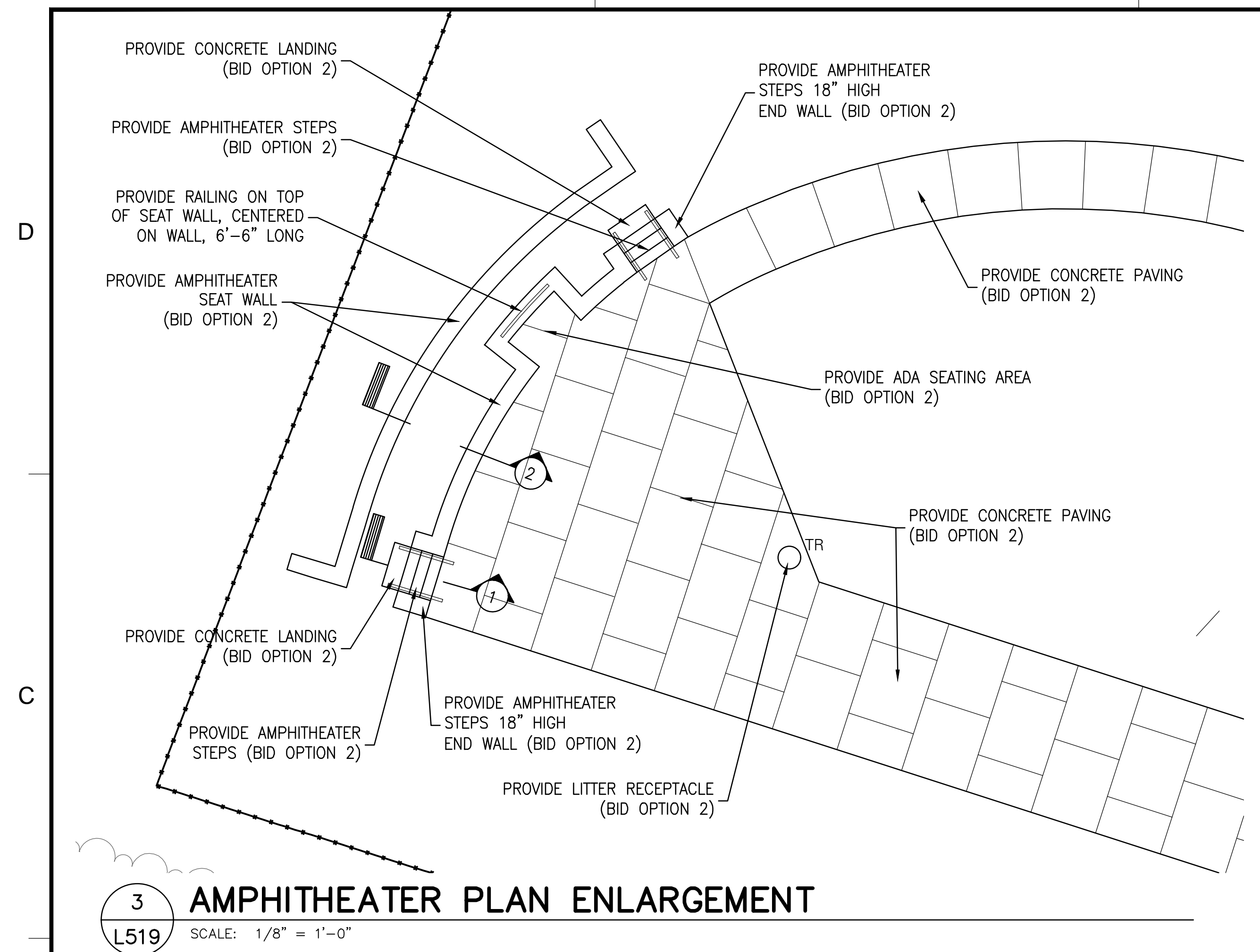
NOT TO SCALE

FOOTBALL GOAL POST

NOT TO SCALE

6 DRAWFORM REVISION: 10 MARCH 2009

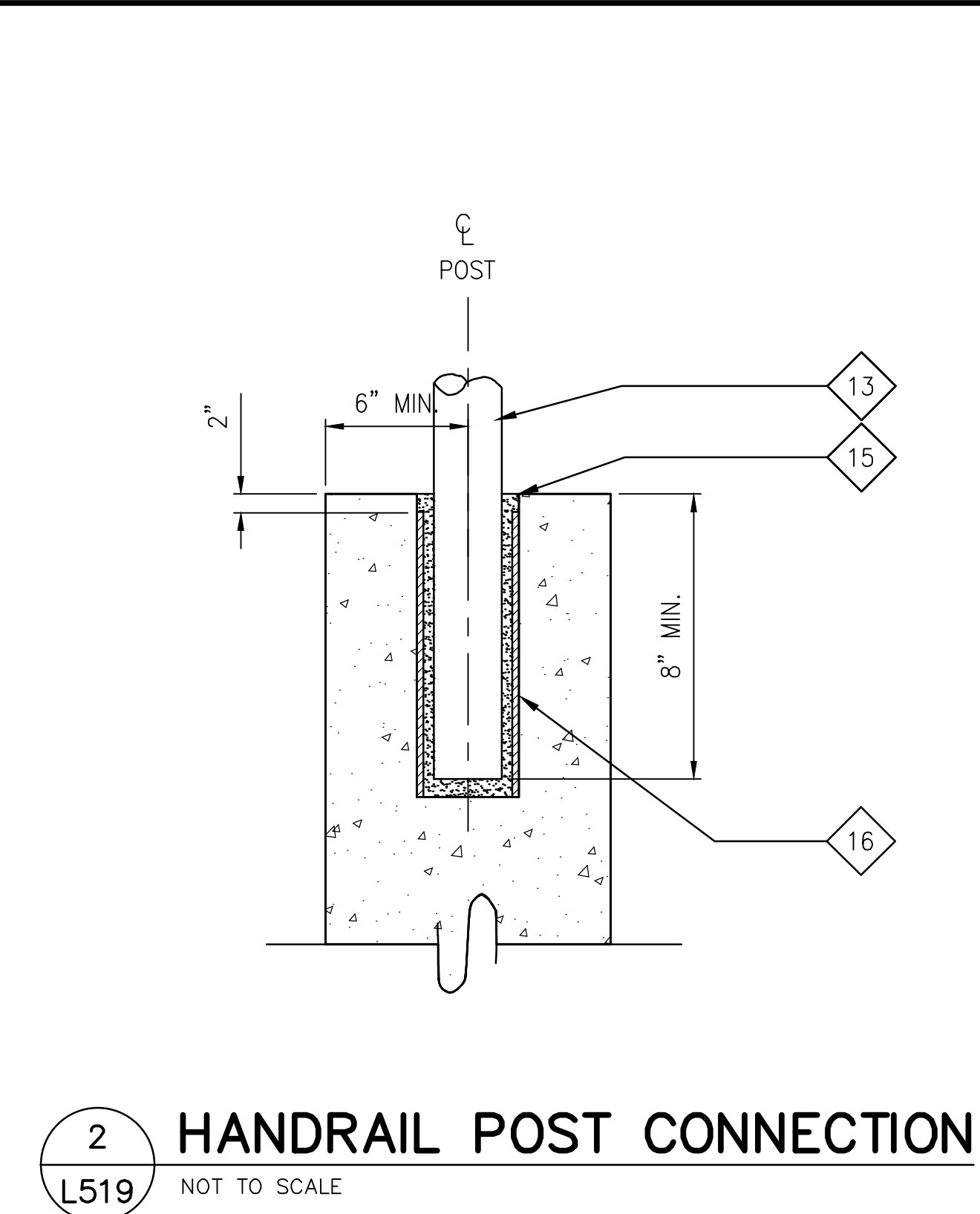
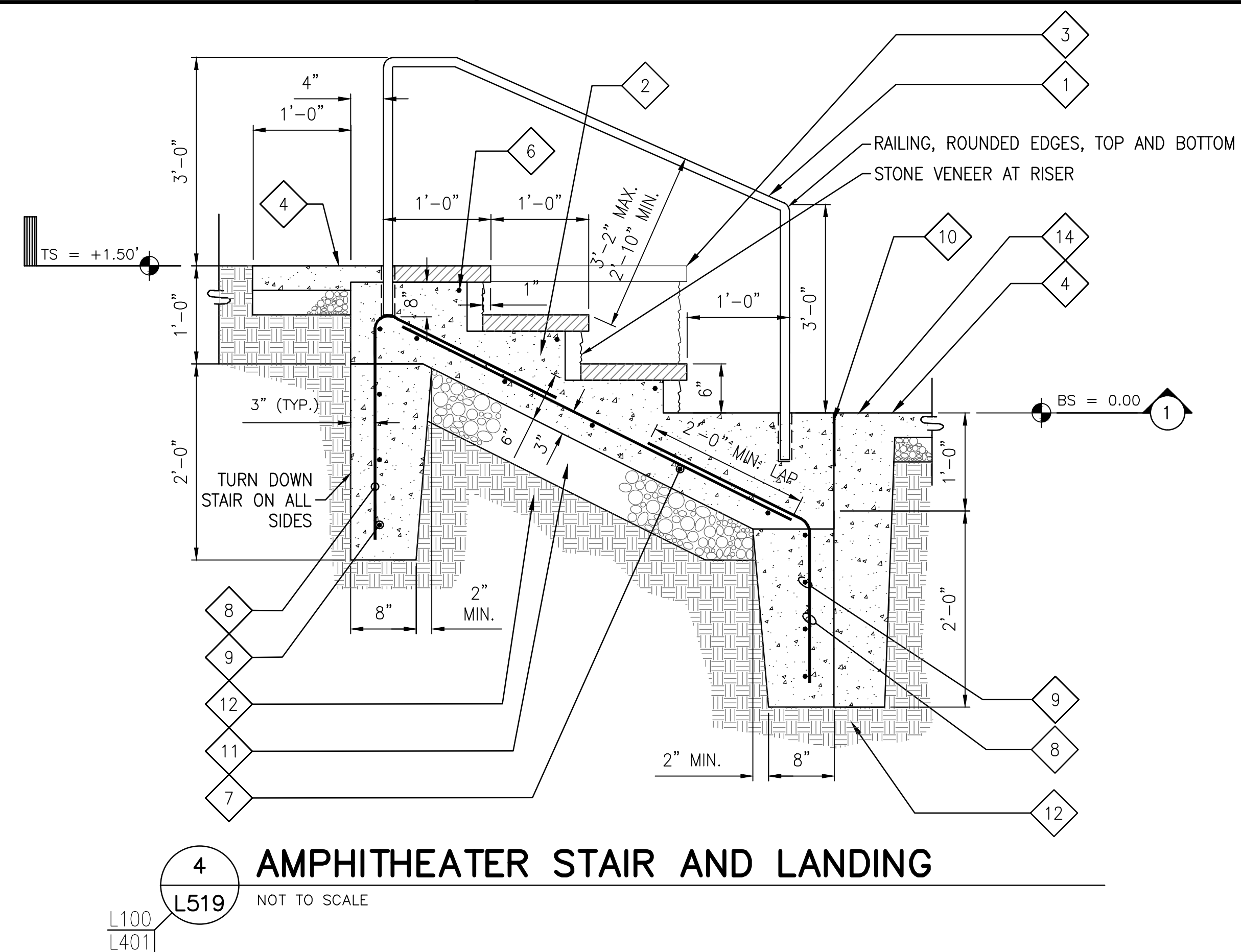




KEY

- | | |
|----|---|
| 1 | 1 1/2" DIA. NOMINAL (1.90" O.D.) SCHEDULE 40 POWDER COATED STEEL HANDRAIL AT STAIRS, COLOR BLACK |
| 2 | REINFORCED CONCRETE STAIR WITH BLUESTONE TREADS AND STONE VENEER |
| 3 | SEAT WALL |
| 4 | FINISHED GRADE. BEAR CONCRETE ON STAIR TURN DOWN AT TOP OF STAIR, AND TURN DOWN CONCRETE AS SHOWN AT BOTTOM OF STAIR TO PREVENT DIFFERENTIAL SETTLEMENT |
| 5 | (NOT USED) |
| 6 | EPOXY COATED #3 BAR AT NOSE, 2" COVER |
| 7 | EPOXY COATED #4 BARS @ 12" O.C. |
| 8 | EPOXY COATED #4 BARS (VERT.) @ 12" O.C. |
| 9 | EPOXY COATED #4 BARS (HORIZ.) @ 12" O.C. |
| 10 | 1/2" EXPANSION JOINT |
| 11 | GRAVEL SUBBASE, 6" THICK |
| 12 | SUBGRADE, COMPACT AS SPECIFIED |
| 13 | 1 1/2" DIA. NOMINAL (1.90" O.D.) SCHEDULE 40 POWDER COATED STEEL HANDRAIL POST, COLOR BLACK |
| 14 | FINISHED GRADE |
| 15 | NON-SHRINK GROUT, SLOPE TOP TO DRAIN |
| 16 | 2 1/2" DIA. NOMINAL (2.47" I.D.) SCHEDULE 40 GALV. STEEL PIPE SLEEVE, CAST INTO CHEEK WALL/CURB |

NOTE:
1. ALL WORK THIS SHEET – BID OPTION 2.

[illegible]